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- (54) SYSTEM AND METHOD FOR FACILITATING A SUBSIDIARY CARD ACCOUNT WITH CONTROLLED SPENDING CAPABILITY
- (75) Inventors: Melanie Dunn, New York, NY (US);
 Chris Hobbs, Singapore (SG); Julie
 Menichilli, Manhasset, NY (US); Mary
 Rances, Huntington, NY (US)

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(73) Assignee: American Express Travel Related
 Services Company, Inc., New York,
 NY (US)

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Primary Examiner—Lalita M. Hamilton (74) Attorney, Agent, or Firm—Snell & Wilmer L.L.P.

(57) **ABSTRACT**

The present invention provides a system and method for facilitating a subsidiary account with parental control of one or more spending limits. An exemplary system facilitates the provisioning of funds to a subsidiary account and the control of the spending of the subsidiary account by a parent through establishment or modification of one or more spending limits through various communication devices. Exemplary spending limits may be configured for modifying a spending capacity so as to affect an amount per transaction, per day, during a predetermined time period, at a particular merchant, at a particular chain of merchants, at a type of industry, in accordance with a predetermined rate of increase or decrease over time, number of transactions during any time period and/or any combination thereof.

See application file for complete search history.

23 Claims, 5 Drawing Sheets





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SYSTEM AND METHOD FOR FACILITATING A SUBSIDIARY CARD ACCOUNT WITH CONTROLLED SPENDING CAPABILITY

CROSS-REFERENCE TO RELATED APPLICATIONS

This patent application is a continuation in part of U.S. nonprovisional patent application Ser. No. 10/155,332 filed 10 May, 23, 2002 and entitled "SYSTEM AND METHOD FOR A PREPAID CARD ISSUED BY A FOREIGN FINANCIAL INSTITUTION," which claims priority to, and the benefit of, the U.S. provisional patent application Ser. No. 60/294,107 filed on May 29, 2001, both of which 15 are hereby incorporated by reference. This application also claims benefit of priority from U.S. provisional patent application Ser. No. 60/458,096, filed Mar. 27, 2003 and entitled "SYSTEM AND METHOD FOR SUPPLEMENTAL CARD LIMITS," which is also hereby incorporated by 20 reference.

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bonuses. To many parents, stored value cards also provide a useful teaching aid through which dependants may practice skills such as budgeting, saving, disciplined spending and/or management of credit.

In addition to controlling and/or monitoring the spending habits of subsidiaries (i.e., students, dependents, employees), parents often desire to provide security for their children to prepare for contingencies that may arise such as a need for emergency medical care. At the same time, however, those parents may not wish that their children have general access to funds for non-emergencies. Unfortunately, however, many existing credit cards do not provide a convenient mechanism for permitting a user access to a limited set of goods or services or providers of same while limiting their access to other goods or services. In addition, parents may wish to minimize the impact such subsidiary accounts may cause to the spending power of the parent's account. Yet, traditional mechanisms for establishing spending capacity in a subsidiary have afforded little capability for the parent to limit its liability for the spending of the subsidiary while simultaneously accommodating the subsidiary's spending in an intelligent and flexible manner. For example, for many parents and their subsidiaries, it is simply not practical to determine with certainty what the precise needs of the subsidiary will be at the time that a subsidiary account is established. Moreover, traditional mechanisms for modifying the limits associated with a subsidiary account may be inconvenient for many parents to use. For example, in the event of an unforeseen emergency 30 situation affecting a subsidiary, a parent may need to make spending capacity available to the subsidiary. At the same time, though, the parent may wish to limit when, where, how, and to what extent the subsidiary may use that spending capacity.

FIELD OF INVENTION

The present invention relates generally to systems for 25 facilitating transactions, and more specifically to systems for facilitating financial services at the request of a first party for the use of a second party such that the first party may define, modify, and/or terminate the spending capacity accorded the second party. 30

BACKGROUND OF INVENTION

Many financial institutions are providing plastic storedvalue cards (e.g. debit cards, telephone calling cards, loyalty 35 cards, etc.) that can be used in lieu of cash. To enable a stored value card to supply spending capacity, a user transfers an amount of value to the issuing institution, which stores or credits a corresponding amount of value to the user's account, allowing the value to be spent by the card 40 user, thereby providing spending capacity to the card user. The value may be transferred to the issuing institution in a variety of ways such as on-line transfers from bank accounts or credit cards. The stored value cards then can be used to pay for items in stores or on-line, and to withdraw cash at 45 automated teller machines (ATMs). The stored value cards appear to function like credit cards, but they often extend little or no credit to the user, so the cards do not substantially enable users to finance their transactions. Some people or entities may be unable, or may not desire, 50 to acquire traditional credit cards (e.g., teenagers, college students, employees, financially insecure or dependent consumers, or others lacking sufficient credit history, permanent income, or age). These parties, however, often desire the alternative of stored value cards for the convenience and 55 prestige they provide. Those who are responsible for such consumers (e.g., parents, guardians, employers, and the like) often desire stored value cards because they provide a convenient mechanism for disbursing financial support to their employees and/or dependents. For example, stored 60 value cards often enable parents to add value to the cards on-line, remote from a dependant who may be away at college, traveling abroad, or residing with a different guardian. Similarly, companies may desire to use stored value cards to enable employees to make expenditures for travel, 65 supplies, or other business related expenses or may even use such financial vehicles for payment of wages, salary, or

Stored value cards may currently be available to provide

parents the ability to track and control the spending and/or accumulation of debt by their dependants. For example, some stored value cards provide parents with access to on-line databases that allow review of information about how much and where their dependents spent the value stored on their cards. Dependants also often appreciate the tracking capability because it provides a convenient record not readily available with purely cash transactions.

Some cards are available that enable parents to prevent the cards from being used by the dependent to purchase goods and/or services from specific merchants or classes of merchants (e.g., those who sell pornography, tobacco and alcohol, or other forbidden goods or services). For example, American Express'Cobalt card enables the blocking of purchases from on-line retailers that sell pornography, tobacco and alcohol. Similarly, U.S. Pat. No. 6,173,269 discloses a method and apparatus for executing electronic commercial transactions with minors where such transactions are limited only to those vendors that have been approved by the minor's parents. Moreover, M2Card highlights "questionable" transactions on account summaries. Other stored value cards, such as "Visa Buxx," provide convenience features such as the ability to accept and accumulate gifts in the form of value to be spent at particular merchants. For purchases above the amount of the gift, additional value may be deducted from the stored value card. Other examples of currently available stored value cards include MasterCard Electronic Card (India, Malaysia), MasterCard Generation X (Brazil), Visa (Brazil), Novacash (Argentina), and AAA Everyday Funds. Unfortunately, stored value cards often require payment of funds prior to or contemporaneously with addition of value to the cards. Thus, once the funds

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have been credited to the dependant's account, the cards provide parents with only limited control over the spending capacity and debt accumulation by the dependant.

Other attempts to satisfy the above-described needs without requiring prepayment and storage of value on the cards 5 of the dependents involve the issuance of subsidiary cards that are linked to, and are able to access, the credit lines of the master accounts. For example, U.S. Pat. No. 4,837,422 describes a multi-user card system in which a card combination that is issued to a single cardholder can be re- 10 programmed by the cardholder for use by a sub-user to a desired extent with regard to value and time. Similarly, U.S. Pat. No. 5,864,830 discloses a data processing method of configuring and monitoring a satellite spending card linked to a host credit card such that a predetermined available 15 spending capacity of each satellite card is selectively determined by the holder of the parent card. Moreover, U.S. Pat. No. 5,294,472 describes a credit card spending authorization control system in which allowing a parent to control the use of an ancillary credit or debit card, which is issued to a 20 subsidiary. Further, U.S. Pat. No. 5,953,710 shows a subsidiary's credit or debit card system that includes a subsidiary's credit card account linked to a parent's credit or debit card account. The systems disclosed in the foregoing patents have typically experienced limited success because parents 25 may not wish to provide their dependents with access to the parents' credit line. Moreover, a sufficient mechanism does not exist that would enable a parent to provide credit to a subsidiary, such as a child, while retaining the ability to control the spending capacity and debt accumulation by the 30 subsidiary. While it may be advantageous to control and/or monitor the spending capacity of a subsidiary party, it has also been recognized that accepting responsibility for the spending of a subsidiary can entail various disadvantages. For example, 35 where a subsidiary is traveling abroad (e.g., the subsidiary) would like to consume spending capacity in a country other than that where the parent resides or other than where the parent card's institution is located), fluctuations in currency exchange rates may cause conventionally defined spending 40 capacities to be inadequate to satisfy the needs of the subsidiary. This may occur, for example, where the spending capacity is defined in terms of U.S. dollars, where the value of a U.S. dollar falls with respect to a Japanese yen, and where the subsidiary resides in Japan. On the other hand, a 45 parent may similarly wish to avoid situations where a subsidiary enjoys a windfall as a result of an advantageous shift in currency exchange rates. To avoid such difficulties, the user may often monitor the exchange rates to compensate for fluctuations. Depending on whether the parent 50 undertakes to perform such monitoring, either the parent or a subsidiary usually assumes the risks associated changes in currency exchange rates. It also may be desirable to modify the spending capacity associated with a subsidiary card to accommodate changing 55 conditions associated with specific events, economic conditions, or simply the passage of time. For example, it may be desirable to periodically modify spending capacity to accommodate the occurrence of periodic expenses such as tuition or rent, while still restricting a subsidiary from 60 depleting spending capacity before it is needed (e.g., during summer vacation, before tuition becomes due). It may also be desirable to adjust spending capacity or other spending restrictions based on, for example, the age of the subsidiary or the subsidiary's passage of the age of majority or another 65 predefined milestone. Similarly, it may be desirable to adjust spending capacity with the conclusion of a school term and

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the beginning of summer break or to accommodate a planned trip such as a summer trip to Europe. In the employment context, it may be desirable to adjust spending capacity in situations where, for example, the subsidiary passes an anniversary date or otherwise becomes entitled to a salary adjustment or a bonus, where a corporate administrator has adjusted allowable per diem expenses or wishes to implement a planned adjustment to account for inflation, or the like. It may also be desirable to be able to effect such changes automatically, without requiring intervention each time conditions change.

In recent years, economic globalization has led to an increased number of international business travelers. Yet, as mentioned above, financing international travel in today's environment may give rise to certain difficulties. Business and pleasure travelers often remain in a country of a different origin and/or monetary base than from where the business traveler originated. In some cases, the business traveler may desire to remain in the foreign country for an extended period of time in order to complete his intended business. At any given time, a corporate organization may be managing the funding and other financial arrangements for a large number of employees traveling abroad. The financial needs of those employees may not always be easy to accurately anticipate and/or administer. The difficult financial needs include, for example, subsisting in a foreign country for any extended period of time typically involves a business traveler paying for living or business expenses as they arise. In that regard, an employer may provide the business traveler with different systems and methods for paying for the expenses. For example, the business traveler may be given cash which can be issued in the currency of the traveler's country of origin (e.g. local currency) or in the currency of the country of the traveler's intended destination (e.g. foreign currency). However, carrying cash has several disadvantages. For example, the cash typically is converted to the currency of the country of intended travel using international currency conversion rates. Further, the traveler typically keeps track of expenses incurred during his business trip for reimbursement and accounting purposes. Further still, cash is often irreplaceable if lost or stolen, leaving the business traveler without sufficient funds to sustain his trip. In spite of the disadvantages of carrying cash, some business travelers may still prefer to carry a negotiable paper currency such as traveler's checks. In general, paper traveler's checks are issued in the currency of the country in which the traveler's checks are intended to be used. In addition, the traveler's checks typically are given a unique serial number for tracking the checks in the event the checks are lost or stolen. Further, the traveler's checks often are countersigned by the holder before it may be negotiated. Traveler's checks may be desirable as compared to conventional cash because of the signature authorization required and because of the ability to be re-compensated the face value of the traveler's checks if the checks are lost or stolen. The traveler may recoup her losses by reporting to the traveler's check issuing institution the serial numbers of the lost or stolen checks. Unfortunately, since the traveler's check issuing institution must verify that the checks were not used, or were subject to unauthorized use, such reimbursement is typically not immediate. Thus, the traveler is often placed at a financial disadvantage until such time as the verification is completed and the traveler is reimbursed the amount of the lost checks. Another method for providing the business traveler with needed funds includes issuing the traveler a transaction card

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enabling the business traveler to electronically interface with a financial institution. For this purpose, a variety of cards exist. For example, a traditional credit card is a card which typically contains a magnetic stripe encoded with an account number which may be read at special terminals at a mer- 5 chant's location. The merchant terminal may read the account information and may transmit the account information and the amount of the intended transaction to the credit card issuing institution. The credit card issuing institution may check credit available for the account against the 10 requested transaction to determine if the requested transaction is within the transaction account credit limit (e.g., available credit). Where the requested transaction does not exceed the available credit, the issuing institution may extend the credit needed to complete the desired transaction. 15 Although the credit cards may be readily replaced if lost or stolen, using the credit card to complete a transaction has clear drawbacks. In particular, the user of the credit card is often charged interest on the credit extended, which means that the traveler may end up paying more than the original 20 amount needed to complete the desired transaction. Another type of transaction card which may be used by a business traveler is a debit card. Typically, a debit card is not used to extend credit, but rather to debit or withdraw cash from an account for immediate payment to a merchant. The 25 debit card typically corresponds to a checking account (or savings account) established by the holder of the debit card. The checking account is usually established at a financial institution located in the country of intended use. The checking account and the financial institution are usually 30 only recognized in the country in which the financial institution is located. Thus, the debit card is typically not useful for completing transactions in countries other than where the checking account is located. This is especially important since the financial institution to which the checking account 35 is linked may not be recognized in the country where the transaction is to be completed. Still another type of transaction card which may be used by a business traveler to access funds is the automated teller machine (ATM) card. Similar to a debit card, the ATM card 40 is typically linked to a checking (or savings) account maintained at a particular financial institution. As used herein in the context of financial accounts, the terms "maintain" and "maintaining" refer to any act or combination of acts of or relating to establishing, authorizing, enabling, coordinating, 45 funding, debiting, crediting, accessing, tracking, accounting, reporting, modifying, or otherwise facilitating and/or administering one or more such financial accounts and/or transactions involving such accounts. The ATM card may allow the ATM cardholder to remotely access funds stored in the 50 checking or savings account by presenting the card to an ATM which is connected to an ATM interchange to which the financial institution subscribes. Like a debit card, the financial institution should be recognized by the ATM network. Thus, ATM cards may be less useful to a foreign 55 business traveler who attempts to retrieve funds in a country other than where the checking or savings account is established. The financial institution is often not recognized in the country where the transaction is to be completed. Still another method for providing the business traveler 60 with funds includes providing the business traveler with a "prepaid" transaction card which is linked to a prepaid account. The prepaid account may be established at a financial institution located in the country in which the card is to be used. The prepaid method includes the prepaid 65 cardholder depositing into the prepaid account a predetermined amount of funds. Subsequent to delivery of the goods

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or services, the amount of the transaction for goods and services is charged against the amount available in the prepaid account. However, similar to the debit cards, the prepaid card is typically geographically limited in that the card may not be used in a country which does not recognize the financial institution where the prepaid account is established. Consequently, since it is often imperative that the business traveler be provided access to sufficient funds for payment of these expenses, a system and method is needed which will allow the business traveler to access the needed funds, whether or not the traveler's attempt to access the funds in his country of origin or the foreign country in which he is traveling. Accordingly, it would be advantageous to have a system and method for providing a flexible limit subsidiary card that does not require the prepayment and/or storage of value prior to use to facilitate transactions. It would also be advantageous to have a financial vehicle that would enable a parent (e.g., employer) to provide value to be spent by a subsidiary (e.g., employee), while providing control over the spending capacity and/or debt accumulation by the subsidiary, and it would be advantageous if the parent would be able to do so remotely from the subsidiary, and even if the parent's financial institution is located remotely from that of the subsidiary. It would further be advantageous if such control included the ability to limit total spending or to prevent or limit spending for specific classes of goods and/or services or to limit or prevent spending at specific classes of merchants or service providers or to limit or prevent spending at specifically identified merchants or service providers. It would also be advantageous to have a system and method for providing a flexible limit subsidiary card that would provide additional features such as replacement in the event the card is lost or stolen, wherein such a feature is are not typically available with cash. It would also be advantageous to have a system and method for providing a flexible limit subsidiary card that would provide the user with freedom and independence to use the received funds to facilitate on-line and off-line transactions as well as withdrawals of money from ATMs. It would also be advantageous to have a system and method whereby a parent could provide security for emergency situations such as medical care while limiting access to credit in other situations. Finally, it would be advantageous for such a card to enable carry-over of a credit balance.

SUMMARY OF THE INVENTION

The present invention addresses many of the shortcomings of the prior art by providing a flexible limit subsidiary card account that may enable a parent to easily and flexibly control the spending capacity of a subsidiary account. In particular, the invention is directed toward a system and method that allows a parent to provide funds to a subsidiary and to at least partially control the subsidiary's spending capacity. In a first aspect, a system for administering a subsidiary card account includes a parent and an administrator. The parent, which is associated with an established credit instrument, e.g., a parent account, is configured to communicate a request for a second account to be established and associated with a subsidiary. The administrator is configured to receive the request from the parent and to facilitate the establishment and issuance of a subsidiary account. The administrator is also configured to facilitate determination and adjustment of appropriate spending power for the parent account and spending capacity for the subsidiary account in accordance with a predetermined set

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of rules or in accordance with the instructions of the parent. An exemplary set of rules may include an allocation of risk between the administrator and the parent whereby the spending power of the parent account is reduced by an amount that is less than the credit line established for the related sub- 5 sidiary card account, in accordance with an allocation of risk to the administrator. In addition, an exemplary administrator is further configured to receive and facilitate execution of a request from the parent to define, modify, and/or terminate the spending and/or debt accumulation limits, i.e., capaci- 10 ties, for the subsidiary card account. That request may be transmitted via any suitable means for communicating instructions such as a telephone, a touch-tone telephone, a two-way pager, a reply pager, a home computer, a personal computer, a personal communication device, a personal 15 communication services device, a digital communications device, a television, an interactive television, a digital television, a personal digital assistant, a display telephone, a video telephone, a watch, a cellular telephone, a wireless telephone, a mobile telephone, a display cellular telephone, 20 a facsimile machine, and the like. Exemplary instructions may be configured for modifying a spending capacity under specific predefined circumstances so as to impose one or more desired spending limit upon the subsidiary through the subsidiary account. Exemplary limits 25 and/or restrictions may include, for example, charge amount per charge, charge amount per day, charge amount during any time period, charge amount at a particular merchant, charge amount at a particular chain of merchants, charge amount at a type of industry, increasing or decreasing charge 30 amount limits over time, limit on number of transactions during any time period and/or any combination thereof. The limitations may also include, for example, any one or more of type of authorized transaction, one of a good and a service authorized, authorized one of vendor, store, and service 35 provider, transaction amount limitation, daily spending limit, authorized geographical area of usage, authorized time of usage, authorized individual, transaction limit for one of a savings account, a checking account, a bank account, and an automated teller machine account, authorized individual 40 for transacting on a savings account, a checking account, a bank account, and an automated teller machine account, proof of identity required for transaction, one of bank and financial institution authorized for the transaction, a limitation of a fee charge on an account, automated teller machine 45 account access code, authorized transaction location, authorized telephone number, authorized telephone calling time, authorized telephone calling area, authorized telephone calling destination, authorized number of telephone calls, authorized incoming telephone call, authorized telephone call 50 duration, and/or authorized telephone call cost and/or transaction amount. In another aspect of the invention, various methods are provided for facilitating the administration of one or more subsidiary accounts. In an exemplary embodiment, a method 55 comprises the steps of receiving a request from a parent to establish a subsidiary account, wherein the parent identifies one or more financial account associated with the parent and established by a first institution (i.e., parent account); establishing a subsidiary account at least partially maintained by 60 a second institution and having a defined spending capacity; and reducing the spending power of the parent account by an amount less than the subsidiary spending capacity. An exemplary method may also include receiving a request from a parent through any suitable communication means to 65 establish or modify a spending limit on one or more subsidiary account, as described above.

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BRIEF DESCRIPTION OF EXEMPLARY DRAWINGS

The above-mentioned objects and features of the present invention can be more clearly understood from the following detailed description considered in conjunction with the following drawings, in which like numerals represent like elements and in which:

FIG. 1 is a schematic block diagram of a prepaid card issuer system in accordance with an exemplary embodiment of the present invention;

FIG. 2 is a flowchart illustrating a system and method for facilitating completion of a transaction request using a prepaid card issued by a foreign financial institution in accordance with an exemplary embodiment of the present invention.
FIG. 3 illustrates the interactions of an exemplary system configured to administer a flexible limit subsidiary card account;
FIG. 4 illustrates an exemplary administrator configured to administer a flexible limit subsidiary card account; and FIG. 5 illustrates an exemplary process for administering a flexible limit subsidiary card account.

DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

The present invention is a payment and funding vehicle that is configured to allow a parent and an administrator to provide funds in the form of a credit line (i.e., spending capacity) to a subsidiary. The system thereby facilitates control over the subsidiary's spending capacity and/or debt accumulation. In accordance with one aspect of the invention, a system for administering a subsidiary card account includes a parent and an administrator. The parent, which is responsible for a related credit instrument, e.g., a parent account, is configured to communicate a request to the administrator requesting that a credit card account be issued to a subsidiary. The administrator is configured to receive the request from the parent and to facilitate the establishment and administration of the subsidiary card account so that it may be used by the subsidiary to facilitate transactions. The administrator is also configured to facilitate determination and adjustment of appropriate spending power for the parent account and spending capacity for the subsidiary card account in accordance with a predetermined set of rules or in accordance with the instructions of the parent. In addition, an exemplary administrator is further configured to receive, and facilitate execution of, a request from the parent to define, modify, and/or terminate the spending capacity and/or debt accumulation limits for the subsidiary card account. In a preferred embodiment, in exemplary set of rules may require an allocation of risk between the administrator and the parent whereby the spending power of the parent account is reduced by an amount that is less than the credit line, i.e., spending capacity, established for the related subsidiary card account, in accordance with, and reflecting, an allocation of risk to the administrator. It should be noted, however, that alternative embodiments are also possible such as, for example, embodiments wherein the allocation of risk between the administrator and the parent is shifted so that when the spending capacity of the subsidiary card account is established, the spending power of the parent account is reduced by an amount that is equal to, or in some cases more than the spending capacity established for the related subsidiary card account.

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In addition to establishing appropriate spending powers and/or capacities, an exemplary system may be configured for monitoring the actual spending facilitated by either, both, or all of a parent card account and one or more subsidiary card accounts and may modify spending power and or 5 capacities based at least in part on that account activity. To illustrate, it may be helpful to consider a parent card having a spending power of \$5000. If the parent desires to establish a subsidiary card account with a spending capacity of \$1000, and exemplary system may respond by establishing the 10 subsidiary card account with the desired spending capacity of \$1000 and may also reduce the spending power of the parent card account from the \$5000 to a lower amount, for example, \$4500. Then, as the parent and/or the subsidiary consumes that spending power and/or that spending capac- 15 ity, the system may monitor the spending facilitated by either, both, or all of a parent card account and the subsidiary card account and may modify spending power and or capacities based at least in part on that account activity. For example, if the parent exceeds the \$4500 spending power 20 associated with the parent card account, the spending capacity of the subsidiary card account may be reduced accordingly. Exemplary instructions may be configured for modifying a spending capacity under specific predefined circumstances 25 so as to impose one or more desired spending limits upon the subsidiary through the subsidiary account. Exemplary limits and/or restrictions may include, for example, charge amount per charge, charge amount per day, charge amount during any time period, charge amount at a particular merchant, 30 charge amount at a particular chain of merchants, charge amount at a type of industry, increasing or decreasing charge amount limits over time, limit on number of transactions during any time period and/or any combination thereof. The limitations may also include, for example, any one or more 35 of type of authorized transaction, one of a good and a service authorized, authorized one of vendor, store, and service provider, transaction amount limitation, daily spending limit, authorized geographical area of usage, authorized time of usage, authorized individual, transaction limit for one of 40 a savings account, a checking account, a bank account, and an automated teller machine account, authorized individual for transacting on a savings account, a checking account, a bank account, and an automated teller machine account, proof of identity required for transaction, one of bank and 45 financial institution authorized for the transaction, a limitation of a fee charge on an account, automated teller machine account access code, authorized transaction location, authorized telephone number, authorized telephone calling time, authorized telephone calling area, authorized telephone call- 50 ing destination, authorized number of telephone calls, authorized incoming telephone call, authorized telephone call duration, and/or authorized telephone call one of cost and transaction amount.

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use the subsidiary card account to facilitate transactions. The administrator additionally facilitates performance of various administrative functions that enable the subsidiary card account to function as a credit vehicle with a degree of control afforded to the parent to define, modify, and/or terminate the spending capacity and/or debt accumulation limits for the subsidiary card account. An exemplary method may also include receiving a request from a parent through a suitable communication means to establish or modify a spending limit on one or more subsidiary account. Suitable means for communicating instructions may include, for example, one or more telephone, touch-tone telephone, two-way pager, reply pager, home computer, personal computer, personal communication device, personal communication services device, digital communications device, television, interactive television, digital television, personal digital assistant, display telephone, video telephone, watch, cellular telephone, wireless telephone, mobile telephone, display cellular telephone, and/or facsimile machine. Accordingly, the invention facilitates transaction accounts having certain limitations or restrictions set or re-set by a parent or a person affiliated with a parent such that parents may be able to cause a subsidiary account to be issued to a subsidiary that the parents might otherwise not feel comfortable allowing access to credit. Accordingly, a parent may establish a subsidiary account with limits set by the parent, thereby reducing the need to pay/reimburse the subsidiary by cash or check. The invention, therefore, helps parents simplify their lives by letting those affiliated with them with subsidiary accounts make purchases more easily. In accordance with an exemplary embodiment of the invention, a system may enable a parent to limit its risk by facilitating establishment and/or modification of one or more spending limit. Accordingly, such limits may be configured to reduce potential imposition of liability on the parent in the event that a subsidiary uses a subsidiary account in violation of one or more established spending limits (i.e., makes "unauthorized" charges). In addition, an exemplary system provides a parent with control over a subsidiary account by facilitating modifications of account statements. For example, an exemplary system may be configured for providing statements to a parent reflecting some or all transactions, and permitting such statements to be configured so as to separately organize transactions related to each subsidiary account or organize the transactions in any other grouping or format desired by the parent or the host. Moreover, an exemplary system facilitates convenient establishment and maintenance of a subsidiary account, eliminating the need to provide a subsidiary with sufficient cash in advance of a trip, or write a check. It should be noted that a subsidiary account may be a preexisting account or a new account, and in accordance with an exemplary embodiment, a system may be configured so that establishment or linkage of a subsidiary account may not impact, or may negligibly impact, or may reduce the impact on, the parent's current spending patterns by minimizing the impact on the spending power of the parent account as spending capacity is granted to subsidiary accounts. In one embodiment, the system and method facilitates a parent setting limitations and/or restrictions on one or more subsidiary transaction account with minimal or no impact on the parent's account spending limit. In another embodiment, a single credit line, spending limit or other restriction may be shared by (i.e., allocated to) a plurality of subsidiary accounts in a predetermined manner. In an exemplary embodiment, a system facilitates linkage of a subsidiary account to a rewards program and facilitates

In accordance with a further aspect of the present invention, a method of administering a subsidiary card account at the request of a parent is also provided. In accordance with the invention, a parent communicates a request to an administrator to issue a subsidiary card account to a subsidiary. The administrator receives the request and approves or denies it based on a predetermined set of rules. If the request is approved, the administrator establishes the spending capacity of the subsidiary card account, modifies the spending power of the parent account, and allocates the difference to the administrator as additional risk. The administrator dispatches the subsidiary card account, to the subsidiary who may then of a subsidiary who may then

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accrual of rewards either to the subsidiary account or to the parent account in accordance with the desire of the parent or the choice of the administrator. In an exemplary embodiment, a system may be configured to facilitate providing insurance benefits so as to enable a subsidiary account to 5 enjoy protections established for the parent account. For example, spending on subsidiary accounts may benefit from the same purchase protection, return protection and buyers assurance protections as that of the parent account. In an exemplary embodiment, a system may be configured to 10 facilitate provision of emergency cash to a subsidiary in the event that any of a predetermined set of events should occur. In accordance with such embodiments, appropriate limits or restrictions may be set or modified at any time in case of, for example, emergency spending needs. Examples of an online membership reward systems are disclosed in Netcentives U.S. Pat. No. 5,774,870, issued on Jun. 30, 1998, and U.S. Pat. No. 6,009,412, issued on Dec. 29, 1999, both of which are hereby incorporated by reference. As used herein, the term "parent" refers to one or more parties possessing one or more existing credit vehicles, such as credit card accounts, and/or any other payment or transaction device and desiring to establish, and at least partially accept responsibility for, one or more credit line or other 25 financial commitment system to be used by at least one other party. It should be noted that a parent may be a guardian, company, entity, software, hardware and/or any other party which provides credit or payment for a subsidiary. Also, as used herein, the term "subsidiary" refers to one or more 30 recipient of a credit or other payment line established at the request of a parent. It should be noted that a subsidiary may be any person, entity, software, hardware and/or other party capable of receiving and using a credit line provided by a parent and may be a dependent child, an employee, entity, 35 software, hardware or any other party capable of receiving a credit line or any other payment arrangement. In accordance with the present invention, an account held by a subsidiary (e.g., a subsidiary card account) facilitates transactions by allowing the subsidiary to access credit. It 40 should be noted that the subsidiary card account may be substantially a credit vehicle. As such, it may not require substantial pre-payment, neither by a parent nor a subsidiary. Moreover, a parent or subsidiary card account may include an account code associated with a physical card or simply an 45 account code without a physical card. It should be noted that, as used herein, the term "administrator' refers to all types of credit issuing institutions, such as banks, credit card companies, card parenting companies, or third party issuers under contract with financial institu- 50 tions. It should also be noted that other participants may be involved in some phases of transactions related to facilitation of transactions involving the accounts, such as one or more intermediary settlement institution, but these participants are not shown.

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downloading data from itself to a second device. A subsidiary or parent account number may be, for example, a sixteen-digit credit issuer's identifier such as a credit card number, although each credit provider has its own numbering system, such as the fifteen-digit numbering system used by American Express.

In an exemplary embodiment, a subsidiary card may bear the name of the subsidiary, and an account number corresponding to the account of the parent. In another exemplary embodiment, a subsidiary card may be issued in nonembossed form, with a name and account number, which may be configured to uniquely identify the subsidiary, being printed on the card. In accordance with this embodiment, non-embossed cards may be much more difficult to use for 15 off-line, POS transactions because the old off-line machines create ROCs from the impression left by the embossed letters. The cards may, however, be used for on-line transactions. By encouraging more transactions to be on-line, an issuer may be better able to track transactions in real-time, and therefore prevent a subsidiary card holder from exceeding the limit to which the parent has agreed. A participating party's credit card numbers may be configured to comply with a standardized format such as a sixteen-digit format using four spaced sets of numbers (e.g., as represented by the number "0000 0000 0000 0000"). In an exemplary embodiment, the first five to seven digits may be reserved for processing purposes and identify the issuing bank, card type and etc. In this example, the last sixteenth digit may be used as a sum check for the sixteen-digit number. The intermediary eight-to-ten digits may be used to uniquely identify the consumer. Although described in terms of a card account, the invention may represent a complete payment service encompassing all involved processes from authentication of the participants to authorization of the transaction to settlement of the payment. The flexible limit subsidiary card account may be established as virtual account, but can also be offered and distributed as a plastic card to be managed and/or supported by an issuer, and can further be branded for and distributed by a third party. It should be noted that the flexible limit subsidiary card account may be used to facilitate online transactions as well as transactions conducted at storefronts using plastic that has been distributed for the flexible limit subsidiary card account. In an exemplary embodiment, the present invention provides system and method for a foreign financial institution to issue a subsidiary card for use domestically. As used herein, "domestic" and "foreign" are relative terms. "Domestic" refers to the country of intended or requested transaction, and "foreign" refers to the country where the financial account is located and where the country is different from the domestic country. However, the terms may be used interchangeably in the various embodiments. In particular, a method and system is disclosed which provides for a sub-55 sidiary card which may be used domestically, and which is issued by a foreign financial institution. In this context, the foreign financial institution may be one located in a country other than where the subsidiary (i.e., the holder of the subsidiary card) initiates a transaction request. The transaction request may be a purchase request, request for cash back, a request for a balance inquiry, request for transaction or subsidiary card usage history, or any such transaction request permitting the subsidiary to check account activity or to access the funds stored in a subsidiary transaction

An "account number," as used herein, includes any device, code, or other identifier and/or indicia suitably configured to allow a consumer to interact or communicate with the system, such as, for example, an authorization/ access code, a personal identification number (PIN), an 60 Internet code, other identification code, and/or the like which may optionally located on a rewards or incentives card, charge card, credit card, debit card, prepaid card, telephone card, smart card, magnetic stripe card, bar code card, and/or the like. Such an account number may be distributed and stored in any form of plastic, electronic, magnetic, and/or optical device capable of transmitting or

The subsidiary card account in accordance with an exemplary embodiment of the invention may be opened by a

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parent, such as the subsidiary's guardian, employer or benefactor, etc. In some instances, the parent (i.e., sponsor) and the subsidiary (i.e., card holder) may be the same entity. The parent may open the account under any business as usual as is standard as determined by the financial institu- 5 tion. The financial institution may request that the parent deposit a fixed monetary amount (e.g., monetary value) into an account uniquely corresponding to the specific subsidiary card account. The amount deposited in the account may be deposited periodically or at any given time. The amount may 10 be deposited in the currency of the country in which the financial institution is located or in any other currency which may be accepted by the financial institution. In addition, the amount deposited in the account may serve as a spending capacity for the subsidiary card. In particular, the subsidiary 15 may be prevented from incurring expenses exceeding the total monetary value stored in the corresponding subsidiary card account. In some instances, the parent may be permitted to make provisions for payment of fees or expenditures incurred where the subsidiary exceeds the amount stored in 20 the subsidiary card account. Such provisions may be specific to the business practices of the financial institution. Once the subsidiary card account is opened, the financial institution may store in a financial database account identifying information corresponding to the subsidiary card 25 account. The account information may be any information permitting the financial institution to correlate the subsidiary card to the subsidiary card account. For example, the account information may include the name of the subsidiary, the account number corresponding to the subsidiary card 30 account, the monetary value stored in the subsidiary card account, the expiration date of the subsidiary card, the name of the parent, etc. The database containing the account information may be managed by a financial institution receive transaction requests from a merchant POS device or ATM, authorize the transaction request, and provide payment of funds for the completion of the transaction, etc. Authorization of the transaction request may include locating the file corresponding to the subsidiary card account 40 number provided by the merchant (e.g. matching the subsidiary card account number with the correlative subsidiary account), verifying that the funds are available for completing the transaction, and transmitting the necessary funds for the transaction's completion. In one exemplary embodiment 45 the financial institution may send the necessary funds in batch transmissions. That is, the financial institution may group (e.g., batch) the necessary funds in accordance with a receiving institution (e.g., merchant) identified in the transaction request, or series of transaction requests. The funds 50 may be organized in a batch file. Once batched, the batch file may be periodically provided to the receiving institution. In some instances, authorizing the transaction may include locating the account file corresponding to the subsidiary card and transmitting a card usage history and/or account bal- 55 ance. In this context, the account balance may include a reporting of the monetary value remaining in the account, as

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magnetic stripe technology, bar coding technology, smart card technology, radio frequency ID, infrared blue tooth or the like. An example of such technology is disclosed in U.S. Pat. No. Re 36,365 issued Nov. 2, 1999 to Levine et al.

The account number assigned to the subsidiary account and encoded on the subsidiary card is preferably recognizable by the merchant POS or ATM systems. Such recognition involves recognizing that the account number has been issued by a financial institution authorized to conduct business on the merchant POS or ATM payment network. The financial institution may be recognized as authorized by use of a code or signature readable by the POS or ATM.

For example, where the subsidiary card issuing institution is located outside the United States, the issuing institution may be issued a code authorizing the issuing institution to transact business over, and be recognizable by, United States based payment networks. These special authorizing codes may be included in the subsidiary card account number. For example, in one exemplary embodiment, the account number may include a bank identification number (BIN) approved by the American Banking Association and a code which may direct the merchant system to the appropriate financial institution for transaction request approval. Since the foreign financial institution is issued a BIN which is recognized domestically, domestic merchant POS and ATM systems may recognize the foreign financial institution as appropriate for conducting transactions over the United States based payment network. That is, unlike conventional cards, such as debit cards and ATM cards, the present invention provides that the foreign subsidiary includes a system for completing a financial transaction domestically, even though the correlative subsidiary account is issued by a financial institution located in a foreign country.

Once the merchant determines that the account number server. The financial institution server may be configured to 35 includes a payment network authorizing code, the merchant

> (or ATM) may process the subsidiary's transaction request. That is, the merchant may seek to determine whether the subsidiary's requested transaction is authorized. The merchant may send the transaction request corresponding to the subsidiary's desired transaction to the foreign financial institution. The transaction request may include an account identifier corresponding to the subsidiary's transaction account at the financial institution. The financial institution may seek to verify whether the account identifier corresponds to an authorized subsidiary account. Verification may include comparing the account identifier with authorized subsidiary account identifications stored in a financial institution database and maintained by a financial institution server. In this context the account identifier may be the account transaction number, a correlative account number, financial institution BIN, personal identification number or the like or any combination thereof. Where the financial institution server successfully matches the account identifier to an authorized subsidiary account, the financial institution may be deemed to have verified that the account identifier may be used to conduct business on the financial institution system. The financial institution server may then seek to determine whether sufficient funds exist in the subsidiary account to complete the desired transaction. That is, the monetary value stored in the subsidiary account on the financial institution database may be compared to the amount of the requested transaction. If the value of the requested transaction is less than or equal to the amount stored in the subsidiary account, the financial institution may authorize the transaction. The financial institution may then send notification to the merchant that the transaction is authorized.

well as, the total of expenditures to date.

The subsidiary card may include system and method for storing a readable subsidiary card identifier. The subsidiary 60 card identifier may be any account code readable by a merchant POS device or ATM, where the account code corresponds to the subsidiary card account maintained by the financial institution server. The card identifier information may be stored on the subsidiary card using any tech- 65 nology capable of physically encoding the account information on the subsidiary card. Suitable technologies include

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Upon receiving notification that the transaction is authorized, the merchant system may seek to have the transaction satisfied. The merchant system may send a file containing a record of the transaction to the foreign financial institution, whereby funds sufficient to account for the transaction may 5 be electronically transmitted directly to the merchant. Alternatively, the merchant may send the settlement file to an "acquirer." In this context, an acquirer is an entity which receives the settlement file including the account identifying indicia (i.e., account number) and summary of changes, and 10 forwards the settlement file to the foreign financial institution for satisfaction. The acquirer may individually send the settlement file to the foreign institution, or may organize (e.g., batch) all settlement files corresponding to a particular account or foreign financial institution prior to sending the 15 batch files to a foreign institution for satisfaction of the transactions. Where the acquire batches the settlement files, the batched settlement files may be sent to the foreign financial institution as one batch file containing several transactional requests. The foreign financial institution may 20 receive the batch requests and satisfy each individual settlement file or transaction request accordingly. In another exemplary embodiment where multiple settlement files correspond to one merchant the foreign financial institution may batch the funds necessary to satisfy the settlement files 25 and forward the merchant batch to the merchant. Alternatively the financial institution may send the batch files to the acquirer, which may in turn forward the batch files to the appropriate merchant. In some instances, the subsidiary card may not be autho- 30 rized because the subsidiary account identifier may not be matched to any file stored on the financial institution database. Where no match is made between the account identifier provided by the subsidiary and the subsidiary account identifiers stored on the financial institution database, the 35 subsidiary account number provided to the financial institution will be deemed unauthorized and/or invalid. The financial institution server may then return a message to the merchant point of sale device or ATM notifying merchant, the subsidiary, or the ATM that the requested transaction has 40 been denied processing. As noted, once the account number is verified by the financial institution, the financial institution server may seek to determine whether the subsidiary's requested transaction may be completed. In one instance the financial institution 45 server may compare the monetary amount of the requested transaction with the monetary amount stored in the subsidiary card account located on the financial institution database. If the requested transaction amount exceeds the amount stored in the subsidiary card account, the subsid- 50 iary's requested transaction may be denied. In addition, a denial message may also be sent where the subsidiary attempts to use a subsidiary card which is expired. That is, a parent or financial institution may predetermine the length of time during which the subsidiary 55 card may be used. The length of time may be noted by an expiration date, after which the subsidiary card may not be used. Where the expiration date approaches, the financial institution may contact the parent and notify the parent that the subsidiary card will expire. The financial institution may 60 contact the parent via any communication network for sending and receiving electronic communications. Alternatively, the financial institution may contact the parent via traditional mail methods.

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institution may permit the parent to restore the value to any suitable monetary level. The financial institution may notify the parent that the value stored in the account is depleted using any suitable communication network for sending and receiving electronic communications, as described above. Alternatively, the financial institution may notify the parent that the account is depleted using translation postal network (e.g., notification letter).

In some instances, the financial institution may request additional verification of the subsidiary's identity. For example, where the merchant POS device or ATM requires the subsidiary to enter a unique security code corresponding to the unique subsidiary card account stored on the financial institution database, the financial institution may seek to authenticate the provided security code (e.g. personal identification number (PIN), biometric fingerprinting, electronic signature, or the like). The financial institution may receive the security code and the compare the security code to security codes stored on the financial institution database and which correlates to the subsidiary card account number. If a match is made, the requested transaction may be permitted to proceed. Contrarily, if a match is not made, the transaction request may be denied and the subsidiary transaction terminated. The operation of the invention may be understood more fully with reference to FIG. 1. FIG. 1 illustrates an exemplary system 100 in accordance with an exemplary embodiment of the present invention. System 100 includes an online infrastructure that may be used to authorize a transaction request received from a merchant. With reference to FIG. 1 exemplary card provider system 100 may include a number of customer interface systems 102, a merchant system 120, and financial institution system 130, which may be configured to intercommunicate via a network 106. The system 100 may additionally include an acquire 126 configured to receive settlement requests from merchant system 120 and provide the settlement requests to the financial institution system 130 via network 106. System 100 may further include a parent system 104, which may be configured to communicate with financial institution system 130 to open a subsidiary account, replenish subsidiary account funds, or receive account activity reports from financial system 130. Customer interface 102 may include any conventional combination of hardware and software components configured to allow a subsidiary to communicate over network **106**. For example, customer interface **102** might include a standard personal computer (PC) comprising a CPU, monitor, storage, keyboard, mouse, and communication hardware appropriate for the given data link 103 (e.g., V.90 modem, network card, cable modem, etc.). In alternate embodiments, customer interface system 102 may be a personal data assistant (PDA) capable of manipulating images and communicating with merchant system **120**. Customer interface system 102 typically may typically include an operating system (e.g., Windows 95/98/2000, Linux, Solaris, MacOS, and/or the like) as well as various conventional support software modules and drivers typically associated with computers. Customer interface system 102 may also include application software configured to communicate via merchant system 120 over network 106 with financial institution system 130. For example, one such application software may include a world wide web (WWW) browser or any other communication software. In an exemplary embodiment, customer interface system 102 includes a conventional Internet browser application that operates in accordance with HTML and HTTP protocols such as Netscape Navigator (available from the Netscape Corporation of

However, it should be noted that the subsidiary card 65 account is re-loadable or restorable. That is, where the value stored in account is depleted or nearly depleted, the financial

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Mountain View, Calif.) or Microsoft Internet Explorer (available from the Microsoft Corporation of Redmond, Wash.).

Merchant system 120 may include a network of point of sale devices 122, configured to communicate with customer 5 interface 102 for receiving the subsidiary card account identifying information. As noted, the present invention is described with respect to a point of sale device to simplify the understanding of the operation of the invention. In this context, the point of sale device 122 may be any device 10 suitable for receiving the subsidiary card account number and transmitting the card account number to a merchant computer **124** for processing. Merchant system 120 may further include a merchant server 112 configured to communicate with financial insti- 15 tution system 130 via a network 106. The merchant server 112 and the financial institution server 114 may be configured to send and/or receive information (e.g., subsidiary identity, subsidiary account number, expiration date, transaction purchase history, etc.) related to a transaction request 20 (e.g. log on request, request for access, purchase request, request for pre-approval application, etc.). In an exemplary embodiment, the transaction request information provided by the merchant may include a code identifying the nature of the transaction. The code may include information iden- 25 tifying the transaction as a purchase request, inquiry (e.g., balance, transaction history) and/or the like. The merchant server 112 may be configured to receive the transaction request and/or transaction initiating indicia from the customer interface 102 and seek validation of the infor- 30 mation provided from the financial institution system 130. In particular, the merchant server 112 may send a validation or authorization request to the financial institution server 114. The financial institution server 114 may validate the information by matching the information contained in the trans- 35 action request to data files stored on a financial institution database 116. Once the information is validated, a corresponding transaction authorized signal may be forwarded to the merchant server 112, for use in determining whether to complete the transaction requested by customer interface 40 **102**. The merchant server 112 and the financial institution server 114 may be any conventional servers (e.g., transaction account server) known in the art, including system and method for receiving transaction requests (e.g., balance, 45 transaction history, or purchases request, etc.) via the network 106, processing such transaction requests and sending validation (e.g., sending confirmation or denial) of the transaction requests to customer interface 102. Customer interface 102 may be suitably coupled to the merchant 50 system 120 via data lines 103. Merchant system 120 may be suitably coupled to the financial institution system 130, via network 106 via data links 105 and 107. In addition, where the system 100 further includes a parent system 104 configured to transmit a request to open a subsidiary card 55 account and to receive an accounting (e.g., account activity, depletion of funds, account expiration), such parent system 104 may be connected to financial institution system 130 via data link 109 or via network 106 and data links 115 and 107. Merchant server 112 and the financial institution server 60 114 may comprise any number of hardware, software, and networking components suitable to provide a user interface to a network 106. In addition, merchant server 112 and the financial institution server 114 may be configured to manage databases, such as for example database 116. In one embodi- 65 ment, merchant server 112 and the financial institution server 114 may include Sun Ultra SPARC Enterprise 250

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and 450 servers which may be used in conjunction with a Sun Solaris 7 or Linux operating system, Apache web server software, and an Oracle 8 or MySQL database system. Of course, particular hardware and software components used in merchant server 112 and the financial institution server 114 will vary widely from embodiment to embodiment. Furthermore, merchant server **112** and the financial institution server 114 may represent a "cluster" or group of separate computer systems providing the functionalities described herein.

A variety of conventional communications media and protocols may be used for data links 103, 105, 107, 109, 111, 113 and 115. Such links might include, for example, a connection to an Internet Service Provider (ISP) over a local loop as is typically used in connection with standard modem communication, cable modem, Dish networks, ISDN, Digital Subscriber Line (DSL), or various wireless communication methods. In addition, customer interface system 102 and merchant system 120, might each independently and separately, or collectively, reside within a local area network (LAN) which interfaces to network **106** via a leased line (T1, D3, etc.). Such communication methods are well known in the art, and are covered in a variety of standard texts. See, e.g., Gilbert Held, Understanding Data Communications (1996), hereby incorporated by reference. In an exemplary system 100, financial institution database **116** may include a plurality of distinct locations for maintaining individual subsidiary, subsidiary account, account security, or parent information. Such information may include subsidiary information, such as subsidiary identity, account number, account balance, amount available, subsidiary PIN, purchase history, etc. (collectively "customer profile"). For example, in one embodiment, a distinct location may include the customer profile of a single subsidiary. The database **116** may be a graphical, hierarchical, relational, object-oriented or other database, and may be maintained on a local drive of the financial institution server 114 or on a separate computer coupled to the financial institution server 114 via a local area or other network (not shown). In one embodiment, the database may be a collection of ASCII or other text files stored on a local drive of the financial institution server **114**. Subsidiary account information may be suitably retrieved from the database **116** and provided to customer interface 102 or to merchant system 120, upon request via a server application, as described more fully below. As noted, within database 116 there may be stored a plurality of individual distinct data locations corresponding to the customer profile for each subsidiary. In one embodiment, database **116** may be managed by the financial institution server 114 which may be maintained on a subsidiary card issuer (i.e., financial institution system 130) with which the subsidiary has an established subsidiary account. The subsidiary account may be associated with any suitable service such as a banking service capable of use for commercial transaction purposes. For example, the subsidiary account may be associated with checking, savings, interest bearing accounts or the like. Further, the subsidiary account may additionally allow the merchant system 120 to recover payment for transactions made by an individual subsidiary. The operation of the present invention may be more fully understood with reference to FIG. 2 and continued reference to FIG. 1. FIG. 2 depicts a flowchart of an exemplary subsidiary card system 200 in accordance with the present invention. As shown, system 200 may begin with the financial institution system 130 being assigned a domestic payment network authorization code (i.e., a BIN). Thus, finan-

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cial institution system 130 is described as being assigned a BIN approved by the American Banking Association (step 202) or any similar authorizing protocol operating in the United States. The BIN is such that it may be recognized and accepted by any network configured to accept BINs domestically, and for which network the financial institution may be registered. In this context, the BIN may be used to identify the financial institution system 130, even if the financial institution is located abroad (e.g., not domestically).

In one exemplary embodiment, the financial institution system 130 is such that it may be configured to establish a subsidiary account for use in satisfying financial transaction requests. The establishment of the subsidiary account may be accomplished by any means as determined by the finan- 15 cial institution. As noted, the financial institution system 130 may include an establishment program for facilitating the subsidiary account establishment. In some instances, it may be necessary for the financial institution to institute an establishment program prior to beginning the subsidiary 20 account process. In some cases, however, the financial institution system 130 may have an establishment program already in place. The financial institution system 130 may include a database 116, wherein distinct database locations may be 25 reserved for storing the subsidiary account information (e.g., account number, monies available, transaction history, expiration date, parent identifier, etc.) and/or customer profile (e.g., subsidiary account holder name, address, PIN, etc.). The distinct database locations may correspond to distinct 30 subsidiary accounts such that the subsidiary account information is correlated to the customer profile. The financial system 130 may further include a financial institution server 114 configured to manage database 116. The financial institution server **114** may be such that it may 35 enable the financial system 130 to receive transaction authorization requests, and validate such request, as is described more fully below. Once the financial institution system 130 has been provided a BIN (step 202) and suitably establishes a system and 40method for providing a subsidiary account, a parent may open a subsidiary account with the financial institution system 130 (step 204). The parent may open the subsidiary account using any means as determined by the financial institution system 130. In an exemplary embodiment, in 45 conjunction with an account acquisition process, a parent may request a subsidiary account by providing the subsidiary accountholder's name, Social Security number, and date of birth and setting the desired purchase and cash advance limits. In one embodiment, the parent may open a subsidiary 50 account by submitting an application for a subsidiary account including the subsidiary account subsidiary name and account expiration date, and providing funds to the subsidiary account for establishing the spending capacity associated with the account. The funds may be provided in 55 the currency of the country in which the financial institution system 130 is located or any currency acceptable to the system 130. The funds may be provided electronically over data link 109, via check, money order or in any manner as determined by the financial institution system 130. Upon opening the account, the parent may provide a subsidiary card to a subsidiary using the card in a country different from the subsidiary's country of origination. The subsidiary may travel to the foreign country and attempt to complete a financial transaction, such as, financial transac- 65 tion for goods or services. To complete the transaction, the subsidiary may present the subsidiary card account infor-

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mation to a merchant point of sale (POS) device 122 via a customer interface 102 (step 206). The subsidiary account information may be presented in the form of an imprinted or embossed card wherein the subsidiary account number is
encoded on the card in a magnetic strip, barcode or the like. The subsidiary may present the subsidiary account information to the POS device 112 along with a transaction request. The POS device 122 may further transmit the subsidiary card account information and transaction request to a mer-10 chant computer system 124 including a merchant server 112 (step 208).

In one embodiment, the account information may include a unique routing code which may be used to direct the merchant server 112 to the appropriate financial institution system 130. In one example, the unique routing code may be a BIN or may be coupled with a BIN. Merchant server 112 may be configured to receive the account information and the transaction request, and provide the account information and transaction request to a financial institution system 130 for authorization (step 210). The merchant server 112 may identify the appropriate financial institution system 130 for receipt of the account and transaction request information by the assigned BIN and institution's unique routing code. Authorization of the transaction may take place in several steps. For example, the financial institution system 130 may include a financial institution server 114 configured to receive the account information and match the account information to its corresponding data location on financial institution system database 116 (step 212). In an exemplary matching method, the account information may be compared to the distinct account locations on database 116 to determine if the subsidiary account information may be found in the database **116**. A match is made if corresponding account information is found on the financial institution database **116**. If a match is made, the financial system server 130 may indicate that the account number is valid. However, the financial system server 130, or alternatively, the merchant system 120, may require additional verification of the subsidiary card authenticity. For example, the subsidiary may be required to provide a PIN number, biometric fingerprint, electronic signature, or the like, as a form of identity verification. The identity verification may be received by the financial institution system 130, via network 106, merchant system 120 and customer interface 102. The financial institution server 114 may seek to match the provided identity verification to the identity verification information stored in the correlative customer profile area on database 116. Where a match is made, the transaction authorization process may continue. Where the account information and/or associated identity verification information are not found on database 116, the financial institution server 114 may provide the merchant system 120 with a transaction denied message (step 214) and the transaction request may be terminated (step 216). Even where the account information and associated PIN are matched on the database 116, the system 130 may further determine whether the transaction is authorized for completion. In particular, the financial institution system 130 may determine whether the subsidiary account has sufficient 60 funds for completing the transaction (step 230), or whether subsidiary account card is expired (step 218). That is, the system 130 may seek to determine if the funds are available in the subsidiary account to complete the transaction, or if date of the transaction request falls after the date on which the subsidiary account is to expire. As noted, the expiration date may be a date determined by the parent or by the financial institution system 130. Where the transaction date

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falls after the expiration date of the subsidiary account, the transaction request may be denied (step 214) and the transaction request may be terminated (step 216). Similarly, where the monetary amount of the requested transaction exceeds the funds available in the subsidiary account, the 5 transaction request may be denied (step 214) and the transaction request may be terminated (step 216). It should be noted, that in verifying whether sufficient funds exist, the financial institution server 114 may first convert the monetary amount noted in the transaction request to the correla-10 tive amount in the domestic currency. The conversion may be made using available international currency conversion rates. In the event that the financial institution server 114 than required, the surplus may be returned to the system 130 matches the subsidiary account information to correlative 15 matching account information on database 116, verifies that the subsidiary account is not expired, and that the transaction request does not exceed the stored monetary value, the transaction may be authorized (step 220). Upon authorization, the financial system server 114 may provide the mer- 20 chant system 120 with a transaction authorized message via any suitable communications network, permitting the transaction request for goods or services to proceed. The merchant system 120 may then seek to have the transaction request satisfied. In this context, the transaction request may be satisfied where the merchant system provides a request for payment of goods and services which is responded to by the financial institution system 130 with a transfer of funds for payment of the goods and services provided. In seeking settlement of the transaction request, the mer- 30 chant system 120 may directly request payment from the financial institution system 130, or the merchant system may provide a settlement request to an acquirer 126 (step 222). The acquirer 126 may be any entity configured to receive settlement request from a merchant system 120 and provide 35 ration date determined by the parent or the financial instithe settlement request to the financial institution 130 (step) 224). In one embodiment, the acquirer 126 may send the settlement request individually to the financial institution system 130. In another embodiment, the acquirer 126 may provide a multitude of settlement requests to the financial 40 institution system 130, where the settlement requests are organized in a batch. The settlement request may be organized in accordance with any indicia to identifying the financial institution for receiving the batch. For example, the batch may be organized by the BIN of the financial institu- 45 tion system 130, by the subsidiary card account number, by the transaction date, or the like. Upon receiving the settlement requests, the financial institution server 114 may process the request for payment to merchant system 120. The financial institution server 114 50 may match the transaction requests to the appropriate distinct data location on database 116 corresponding to a particular subsidiary account. Funds necessary for satisfaction of the transaction request may be retrieved from the subsidiary account by the financial institution server 114 55 (step 226) and provided to the merchant system 120 (step **228**). While the funds stored in the financial account may be provided in the currency of the country in which the financial institution system 130 is located, the funds transferred to the merchant system 120 may be converted to the cur- 60 rency of the country in which the merchant system 120 is located. The funds may be converted by financial institution system 130 or by an acquirer 126 prior to forwarding the funds to merchant system 120. For example, in one exemplary embodiment the financial institution system 130 may 65 provide the funds to an acquirer **126** via a network **106**. The acquirer 126 may receive the funds in the currency of the

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country wherein the financial institution system 130 is located and may convert the funds into the currency of the country wherein merchant system 120 is located. That is, the funds may be permitted to undergo a currency conversion, wherein the funds are converted to a second currency based on the existing currency exchange rate. If incorrect currency exchange rates are used, thereby creating a deficit to the merchant, the deficit may be charged against (e.g., deducted from) the subsidiary account. If the deficit charged against the subsidiary account creates an insufficient funds situation, the loss may be born by the financial institution system 130. Similarly, where the incorrect exchange rate creates a surplus (e.g., by causing the system 130 to forward more money and added to the subsidiary account balance. In one exemplary embodiment, the funds may be provided electronically. An exemplary method for providing funds electronically is disclosed in U.S. Pat. No. 6,304,860 issued Oct. 16, 2001 to Martin, Jr. et al., which is incorporated herein by reference. In some cases, the funds stored in the subsidiary account may become depleted due to the submitted settlement request. In this instance, the financial institution may notify the parent system 104 and the subsidiary of the subsidiary account's depleted status. Such notification may be provided to the parent system 104 and subsidiary electronically, in accordance with established methods for sending electronic communications. Alternatively, the notice may be provided to the parent system 104 and the subsidiary via traditional postal methods (e.g., notification letter). Upon notification of the account's depleted status, the parent may be permitted to provide additional funds to the subsidiary account (e.g., reload the account) for future usage by the subsidiary account subsidiary.

As noted, the subsidiary card account includes an expi-

tution, after which the subsidiary account may not be valid for completing transaction requests. Financial institution system 130 may be configured to provide notice of an impending expiration date to the parent and/or the subsidiary. The expiration date notice may be provided electronically, or via traditional postal methods. Upon receipt of the expiration notice, the parent may be permitted to determine if new expiration date should be associated with the account. Where a new expiration date is chosen, the subsidiary account may be authorized for usage until the termination of the new expiration date. Contrarily, where the parent elects not to establish a new expiration date, the funds remaining in the subsidiary account may be returned to the parent. The funds may be returned electronically, or via traditional postal methods, and may be returned in the currency of the country in which the financial institution system 130, the parent or the subsidiary is located. It should be noted that the parent may wish to close the account prior to the expiration date. In such a case, the parent notifies the financial institution server **114** of its intent to close. Upon closing the subsidiary account, the financial institution server **114** may forward any remaining funds to the parent. Alternatively, the funds may be returned to the subsidiary. The decision on who receives the funds upon closing the subsidiary account may be made by the parent or the financial institution system 130 when opening the subsidiary account. The transaction request provided by merchant server **112** to financial institution 130 may include a request for a reporting of subsidiary account activity (e.g., balance, record) of transaction request, record of transaction request satisfied, etc.). In this instance, the financial institution server 114 may be provided the transaction request directly, or via an

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acquirer (step 224). To honor the transaction reporting request, the financial institution server 114 may seek to match the subsidiary account number to one of the distinct database locations storing subsidiary account information. In particular, the financial institution server 114 may deter-⁵ mine whether the account number may be matched on the database 116, retrieve the corresponding matching information stored on the database 116 and provide the requested information to the customer interface 102 via the network 106 and merchant system 120.

In the foregoing specification, the invention has been described with reference to specific embodiments. However, it will be appreciated that various modifications and changes can be made without departing from the scope of the present 15 330. invention as set forth in the claims below. For example, various processing steps may be combined or eliminated as required, such as for example, permitting the financial institution server **114** to establish a subsidiary account prior to receiving a BIN, or providing a transaction settlement request directly to the financial institution server 114, without the use of an acquirer 126. Further, various system elements described herein may be eliminated, and various steps may be performed by one or more of the elements described herein, such as for example, permitting the subsidiary to communicate directly with a merchant system 120 independently of a POS device 122. In addition, other suitable elements may be substituted for the elements described herein, or inserted between the connecting lines of the embodiments set forth, without departing from the scope of this invention. Further still, the specification and figures are to be regarded in an illustrative manner, rather than a restrictive one. As such, any modifications resulting in a system which is suitable for practicing the invention, are intended to be included within the scope of the invention. Accordingly, the scope of the invention should be determined by the appended claims and their legal equivalents, rather than by the examples given above. For example, the steps recited in any of the method or process claims may be presented in the claims (e.g., validating available funds prior to verifying the subsidiary card expiration date, etc.). FIG. 3 illustrates the interactions of an exemplary system configured to administer a flexible limit subsidiary card account. In accordance with an exemplary embodiment, the system 300 facilitates interaction between a parent 310, a subsidiary 350 and a merchant 370 through an administrator **330**. Parent **310** is responsible for a parent account **315**, and is configured to communicate a request 312 to administrator 330 requesting that a subsidiary card account 332 be established for subsidiary 350. Administrator 330 is configured to receive request 312 from parent 310 and to facilitate the establishment and administration of a subsidiary card account 332 so that it may be used by subsidiary 350 to facilitate transactions.

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many employees and similarly may enable a guardian to provide for many dependents.

In an exemplary embodiment, the flexible limit subsidiary card account system 300 is implemented as computer software modules loaded onto the computer of parent 310, the computer of administrator 330, the computer of subsidiary 350, and/or the computer of a merchant 370. In an exemplary embodiment, the computer of parent 310, the computer of subsidiary 350, and the computer of merchant 370 do not 10 require any additional software (beyond what is required to accomplish traditional on-line transactions) to participate in the online transactions supported by the flexible limit subsidiary card account system 300. The additional facilitating

software is implemented on the computer of administrator

The system 300 may include a host server or other computing systems including a processor for processing digital data, a memory coupled to said processor for storing digital data, an input digitizer coupled to the processor for inputting digital data, an application program stored in said memory and accessible by said processor for directing processing of digital data by said processor, a display coupled to the processor and memory for displaying information derived from digital data processed by said processor and a plurality of databases, said databases including data regarding the parent account 315, subsidiary 350 data, merchant **370** data, financial institution data and/or like data that could be used in association with the present invention. The host may be a remotely located system or the host may be a processor located on a smart account. The limitations or restrictions may be communicated to a host via any network, email, webpage, voice response unit or customer service line via customer service representatives. The limitations or restrictions may also be transmitted to the host via one or 35 more of a telephone, a touch-tone telephone, a two-way pager, a reply pager, a home computer, a personal computer, a personal communication device, a personal communication services device, a digital communications device, a television, an interactive television, a digital television, a executed in any order and are not limited to the order 40 personal digital assistant, a display telephone, a video telephone, a watch, a cellular telephone, a wireless telephone, a mobile telephone, a display cellular telephone, and a facsimile machine. As those skilled in the art will appreciate, the computer of parent 310 and subsidiary computer will typically include an operating system (e.g., Windows NT, 95/98/2000, Linux, Solaris, etc.) as well as various conventional support software and drivers typically associated with computers. The invention, however, could also be used in conjunction with any type of personal computer, network computer, workstation, minicomputer, mainframe, or the like running any operating system such as any version of Windows, Windows NT, Windows 2000, Windows 98, Windows 95, MacOS, OS/2, BeOS, Linux, UNIX Solaris or the like. Moreover, 55 although the invention may be implemented with TCP/IP communications protocols, it will be readily understood that the invention could also be implemented using IPX, Appletalk, IP-6, NetBIOS, OSI or any number of existing or future protocols. The system contemplates the use, sale or distribution of any goods, services or information over any network having similar functionality described herein. Computers can be in a home or business environment with access to a network. In an exemplary embodiment, access is through the Internet through a commercially-available webbrowser software package. Database may be any type of database, such as relational, hierarchical, object-oriented, and/or the like. Common data-

In an exemplary embodiment, the system of the present invention enables parent 310 to provide one or more subsidiary card account 332, each being related to the parent account 315. In other words, subsidiary card account 332 may comprise one or more accounts that may each be linked 60 to the parent account **315**. It should also be noted that parent account 315 may represent one or more accounts sharing responsibility for subsidiary card account 332. Similarly, subsidiary 350 may comprise a corresponding number of subsidiaries, each being the beneficiary of one or more 65 subsidiary card account 332. Accordingly, the system of the present invention may enable a corporation to provide for

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base products that may be used to implement the databases include DB2 by IBM (White Plains, N.Y.), any of the database products available from Oracle Corporation (Redwood Shores, Calif.), Microsoft Access by Microsoft Corporation (Redmond, Wash.), or any other database product. 5 Database may be organized in any suitable manner, including as data tables or lookup tables. Association of certain data may be accomplished through any data association technique known and practiced in the art. For example, the association may be accomplished either manually or auto- 10 matically. Automatic association techniques may include, for example, a database search, a database merge, GREP, AGREP, SQL, and/or the like. The association step may be accomplished by a database merge function, for example, using a "key field" in each of the manufacturer and retailer 15 data tables. A "key field" partitions the database according to the high-level class of objects defined by the key field. For example, a certain class may be designated as a key field in both the first data table and the second data table, and the two data tables may then be merged on the basis of the class 20 data in the key field. In this embodiment, the data corresponding to the key field in each of the merged data tables is preferably the same. However, data tables having similar, though not identical, data in the key fields may also be merged by using AGREP, for example. Communication between the parties and the system of the present invention is accomplished through any suitable communication means, such as, for example, a telephone or telephone network, a touch-tone telephone, a two-way pager, a reply pager, a home computer, a personal computer, 30 a personal communication device, a personal communication services device, a digital communications device, a television, an interactive television, a digital television, a personal digital assistant, a display telephone, a video telephone, a watch, a cellular telephone, a wireless telephone, a 35 network via a leased line (T1, D3, etc.). Such communicamobile telephone, a display cellular telephone, a facsimile machine, Intranet, Internet, point of interaction device (point of sale device, personal digital assistant, cellular phone, kiosk, etc.), online communications, off-line communications, wireless communications, and/or the like. One skilled 40 in the art will also appreciate that, for security reasons, any databases, systems, or components of the present invention may consist of any combination of databases or components at a single location or at multiple locations, wherein each database or system includes any of various suitable security 45 features, such as firewalls, access codes, encryption, deencryption, compression, decompression, and/or the like. To simplify the description of the invention herein, various embodiments of the invention is may be described as pertaining to a system facilitating communication between a 50 domestic merchant system (or ATM) and a financial institution card issuer using a computer network. It should be appreciated that the computing units may be connected with each other via a data communication network. The network may be a public network and assumed to be insecure and 55 open to eavesdroppers. For example, the network may be embodied as the internet. In this context, the computers may or may not be connected to the internet at all times. For instance, the computer of the parent 310 and/or the computer of subsidiary 350 may employ a modem to occasionally 60 connect to the internet, whereas administrator 330 or bank computing center might maintain a permanent connection to the internet. Specific information related to the protocols, standards, and application software utilized in connection with the Internet may not be discussed herein. For further 65 information regarding such details, see, for example, Dilip Naik, Internet Standards and Protocols (1998); Java 2 Com-

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plete, various authors, (Sybex 1999); Deborah Ray and Eric Ray, Mastering HTML 4.0 (1997). Loshin, TCP/IP Clearly Explained (1997). All of these texts are hereby incorporated by reference.

As a further example, the computer of parent 310, the computer of subsidiary 350, the computer of administrator 330, and the computer of merchant 370 may all be interconnected via a network, referred to as a transaction network. The transaction network represents existing proprietary networks that presently accommodate on-line transactions for credit cards, debit cards, and other types of financial/banking cards. The payment network is a closed network that is assumed to be secure from eavesdroppers. Examples of the payment network include the American Express[®], VisaNet[®] and the Veriphone[®] network. One skilled in the art will appreciate that the network may include any system for exchanging data or transacting business, such as the Internet, an intranet, an extranet, WAN, LAN, satellite communications, and/or the like. It is noted that the network may be implemented as other types of networks, such as an interactive television (ITV) network. The users may interact with the system via any input device such as a keyboard, mouse, kiosk, personal digital assistant, handheld computer (e.g., Palm Pilot@), cellular phone and/ 25 or the like. The systems may be suitably coupled to network via data links. A variety of conventional communications media and protocols may be used for data links. Such as, for example, a connection to an Internet Service Provider (ISP) over the local loop as is typically used in connection with standard modem communication, cable modem, Dish networks, ISDN, Digital Subscriber Line (DSL), or various wireless communication methods. Merchant 370 system might also reside within a local area network (LAN) which interfaces to tion methods are well known in the art, and are covered in a variety of standard texts. See, e.g., Gilbert Held, Understanding Data Communications (1996), hereby incorporated by reference. In on-line implementations of the instant invention, each participant is equipped with a computing system. Parent 310 may be equipped with a computing unit in the form of a personal computer, although other types of computing units may be used including laptops, notebooks, hand held computers, set-top boxes, and the like. Administrator 330 may be equipped with a computing unit such as a computer-server, although other implementations are possible. Subsidiary 350 and merchant 370 each may be implemented as a computer, which may be a main frame computer or which may be implemented in other forms, such as mini-computers, PC servers, a network set of computers, and the like. The computer may provide a suitable website or other Internet-based graphical user interface which is accessible by users. In one embodiment, the Internet Information Server, Microsoft Transaction Server, and Microsoft SQL Server, are used in conjunction with the Microsoft operating system, Microsoft NT web server software, a Microsoft SQL database system, and a Microsoft Commerce Server. Additionally, components such as Access Sequel Server, Oracle, MySQL, Intervase, etc., may be used to provide an ADOcompliant database management system. The term "webpage" as it is used herein is not meant to limit the type of documents and applications that might be used to interact with the user. For example, a typical website might include, in addition to standard HTML documents, various forms, Java applets, Javascript, active server pages (ASP), common gateway interface scripts (CGI), extensible markup language

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(XML), dynamic HTML, cascading style sheets (CSS), helper applications, plug-ins, and the like.

In an exemplary embodiment, the system of the present invention facilitates administration of a subsidiary card account 332 so that it may function with many of the 5 features and characteristics of traditional credit cards. For example, subsidiary card account 332 may be configured to be used at an ATM or at a point of sale and can also be configured to provide security and protection through traditional insurance features. Moreover, subsidiary card 10 account 332 may be configured to satisfy most if not all standard credit card requirements such as embossing of the identifying information (e.g., name, account number, expiration date, signature, and the like) of parent 310 and subsidiary **350**. In addition, the flexible limit subsidiary card account system can accommodate the requirements of the underlying dependent financial instruments. If there are usage restrictions or limitations in place for the parent account 315, those same controls (if known) may be enforced by flexible limit 20 subsidiary card account 332. For example, if subsidiary card account 332 is to be restricted to use at only restricted merchants 370, then the system will disable subsidiary card account 332 from being used at any non-approved merchant **370**. Similarly, a subsidiary card account may be configured to accommodate emergency conditions such as an emergency needs for medical care, pharmaceuticals, transportation, or the like. Accordingly, subsidiary card account may be configured to bear an extended spending capacity available for 30 use at specific merchants (e.g., a specified hospital, pharmacy, or travel agent) or specified classes of merchants (e.g., medical service providers, pharmacies, or travel agencies in general). Optionally, a subsidiary card may be configured to accommodate anticipated expenditures that may occur only 35 periodically, such as tuition or rent payments. In accordance with this embodiment, spending capacity may be reserved to accommodate payment for the anticipated expenditures even if spending capacity for other expenditures (e.g., entertainment) may have been exhausted. In an exemplary embodiment, one or more cash advance limits may be prescribed by a parent and configured so as to enable the parent to choose to give the subsidiary accountholder access to cash advances at ATM's. In another exemplary embodiment, one or more account usage limits 45 may be prescribed by a parent and configured so as to enable the parent to choose to give the subsidiary accountholder the ability to use the account in one or more predefined locations whereby if a purchase or cash advance limit is exceeded, an attempted transaction may be declined. The limits or restric- 50 tions may include, for example, charge amount per charge, charge amount per day, charge amount during any time period, charge amount at a particular merchant, charge amount at a particular chain of merchants, charge amount at a type of industry, increasing or decreasing charge amount 55 limits over time, limit on number of transactions during any time period and/or any combination thereof. The limitations may also include, for example, any one or more of type of authorized transaction, one of a good and a service authorized, authorized one of vendor, store, and service provider, 60 transaction amount limitation, daily spending limit, authorized geographical area of usage, authorized time of usage, authorized individual, transaction limit for one of a savings account, a checking account, a bank account, and an automated teller machine account, authorized individual for 65 transacting on a savings account, a checking account, a bank account, and an automated teller machine account, proof of

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identity required for transaction, one of bank and financial institution authorized for the transaction, a limitation of a fee charge on an account, automated teller machine account access code, authorized transaction location, authorized telephone number, authorized telephone calling time, authorized telephone calling area, authorized telephone calling destination, authorized number of telephone calls, authorized incoming telephone call, authorized telephone call duration, authorized telephone call cost and transaction amount.

Limitations or restrictions may be communicated to a host via any network, email, webpage, voice response unit or customer service line via customer service representatives. The limitations or restrictions may also be transmitted, directly or indirectly, to the host via one or more of a 15 telephone, a touch-tone telephone, a two-way pager, a reply pager, a home computer, a personal computer, a personal communication device, a personal communication services device, a digital communications device, a television, an interactive television, a digital television, a personal digital assistant, a display telephone, a video telephone, a watch, a cellular telephone, a wireless telephone, a mobile telephone, a display cellular telephone, a facsimile machine or as otherwise describe herein or known in the art. In an exemplary embodiment, liability for spending facili-25 tated by a subsidiary account may be imposed entirely upon a parent whereby a parent is responsible for payment of all transactions. In another exemplary, however, liability may be for spending facilitated by a subsidiary account may be apportioned according to one or more prearranged criteria. For example, in an exemplary embodiment, a parent may request, and the system may facilitate, purchase protection so as to apportion liability for unauthorized purchases (e.g., purchases facilitated in violation of spending limits) or fraudulent purchases or unsatisfactory purchases to an account issuer or another party other than the parent (e.g., the parent may be reimbursed for amounts up to \$1,000 per item and \$50,000 per year. Similarly, the system and method may facilitate provision of return protection such that a parent may be reimbursed in the event a merchant refuses to 40 accept a return within a predetermined period of time (e.g., reimbursement up to \$300 per item and \$1,000 per year if a merchant refuses to accept a return or goods within 90 days of purchase). Finally, an exemplary system may facilitate provision of buyer's assurance configured to extend a warranty for a period (e.g., up to 1 year). In an exemplary embodiment, the system may be configured to allow a parent to set, review and re-set purchase limits and cash advance limits associated with one or more individual subsidiary accounts via a suitable means for communicating as described herein. In addition, an exemplary system and method may facilitate systematic checking to validate a request (e.g. validate a requested limit relative) to a shadow line associated with the parent account), prior to updating a limit associated with a subsidiary account. In one embodiment, new limits and/or validated changes to existing limits may be facilitated in substantially real-time. In an alternative embodiment, however, such changes may be applied at pre-determined times or intervals or in a batch mode. In one embodiment, a maximum limit on a subsidiary account may be determined by an overall exposure associated with the account so as to prevent total spending between the parent account and its associated subsidiary accounts from exceeding a predetermined amount (e.g., \$1000). For example, in accordance with this embodiment, a system may facilitate spending by a subsidiary to the extent of \$1000 every cycle (e.g., month); however, the ability of the sub-

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sidiary to charge up to that predefined \$1000 may depend on whether a sufficient spending power exists with respect to the parent account.

In alternative embodiments, limits, restrictions or any other progress toward the limits may be displayed. Mem- 5 bership fees for both the basic accountholder and subsidiary, may be billed annually. In an alternative embodiment, the membership or any other fees may be billed at any interval.

With further reference to FIG. 3, administrator 330 is configured to facilitate determination and adjustment of 10 appropriate spending powers for the parent account 315 and subsidiary card account 332 in accordance with a predetermined set of rules. An exemplary set of rules configured to accommodate the provision of a credit line to a subsidiary **350** may require an allocation of risk between administrator 15 330 and parent 310 whereby the spending power of the parent account 315 is reduced by an amount that is less than the spending capacity or credit line established for related subsidiary card account 332, in accordance with, and reflecting, an allocation of risk accepted by administrator 330. Similarly, the system 300 may include a similar set of rules and be configured to accommodate a reduction in an existing spending capacity that previously had been provided to a subsidiary 350. For example, the spending power of the parent account **315** may be increased by an amount that is 25 less than the reduction in the spending capacity for the related subsidiary card account 332. It should also be noted, however, that specific embodiments of the invention may be configured to accommodate local customs and/or practices or to accord with applicable 30 legal requirements. The details of how the spending capacity of the parent card is consumed as the spending capacity of each subsidiary card is increased and/or consumed will depend, of course, on regulatory and practical considerations applicable wherever and however the cards are used and 35 their functions facilitated. In addition, the administrator may be configured to allocate payment liability to lie entirely with the holder of the parent card so as to eliminates the risk of uncollectability associated with subsidiary cards in situation such as where the subsidiary card is held by a minor 40 or otherwise not legally responsible party. The details of how the responsibility and or liability for spending capacity consumed by the subsidiary card may be determined to satisfy various regulatory and/or practical considerations applicable wherever and however the cards are used and 45 their functions facilitated. For example, it may be desirable to avoid legal collectibility risk associated with debts held by minors and to avoid any regulatory issues in countries that restrict the issuance of credit cards to minors. As discussed herein, an administrator 330 may issue a 50 subsidiary card account 332 that bears its own spending capacity, i.e., a subsidiary spending capacity, and that is linked to a parent account 315. As described herein, the system of the present invention enables parent 310 to define and change the spending capacities (e.g., credit limits or 55 other mechanisms for approving or denying an individual transaction) for each subsidiary card account 332 or to cancel one or more subsidiary card account 332 altogether. To accommodate the access of subsidiary card account 332 to the subsidiary spending capacity, the original spending 60 power of a parent account 315 is reduced to a modified parent spending power. The difference between the original parent spending power and the modified parent spending power, however, may be less than the subsidiary spending capacity in cases where some of the risk associated with 65 subsidiary card account 332 is assumed by administrator **330**. In other words, the sum of the modified parent spending

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power and the subsidiary spending capacity may be greater than the original parent spending power, the difference being equal to the risk assumed by administrator 330. For example, an original spending power of a parent account 315 set at \$9500 may be reduced to \$9000 when an administrator 330 issues a subsidiary card account 332 linked to the parent account 315, but the subsidiary card account 332 will have a spending capacity of \$1000. In this case, the original spending power of the parent account 315 is decreased by \$500 while administrator **330** assumes \$500 of risk. Thus, the total spending power for the parent account **315** and the subsidiary card account 332 increases from \$9500 to \$10000. It should be noted that the invention contemplates that there may be one or more parent card representing the parent and associated with which there may also be one or more subsidiary card. It should also be noted that each subsidiary card may have associated with it one or more monthly spending limit, whereby a spending limit associated with first subsidiary card may be different from a spending limit associated with a second subsidiary card even though both subsidiary card accounts are associated with the same parent. In an exemplary embodiment, a spending capacity may be prescribed in terms of one or more currency (e.g., an amount in U.S. dollars, an amount in Japanese yen) and may also be prescribed as a minimum or maximum of amounts described in terms of two or more currencies. For example, in an exemplary embodiment, a spending capacity is described as an amount in Japanese yen so long as that amount is greater than an amount in U.S. dollars. In another exemplary embodiment, a spending capacity is described as an amount in Japanese yen so long as that amount does not exceed an amount in U.S. dollars.

In an exemplary embodiment, a spending capacity may be

variable and may be determined according to one or more factors. Exemplary factors may include, one or more currency exchange rates, an age of a subsidiary card holder, a standard cost of living indicator (e.g., consumer price index), the current date, the length of time elapsed from a predetermined date, or the like. In accordance with this embodiment, a spending capacity may be determined, and subsequently re-determined, so as to provide a fixed spending capacity (e.g., \$500 per month) in terms of a first currency (e.g., U.S. dollars) for a first period of time (e.g., until the subsidiary card holder's 18th birthday) and then modified so as to provide a revised spending capacity (e.g., 100,000 per month) in terms of a second currency (e.g., Japanese yen) for a second period of time (e.g., three months). Accordingly, a subsidiary card may be preconfigured to accommodate the spending of a subsidiary as the subsidiaries spending needs change (e.g., as a minor dependent, as a dependent or employee traveling abroad, as a college student, as an heir).

In addition, where anticipated future expenditures (e.g., tuition) are defined in terms of a first currency (e.g., British pounds) a spending capacity of a subsidiary card may be provided so as to accommodate the anticipated expenditures even though the parent card from which the spending capacity is acquired may be depleted in terms of a second currency (e.g., U.S. dollars). Put another way, the system may optionally be configured to provide the ability for parent to eliminate risks associated with fluctuations in currency exchange rates by committing to fixed automatic long-term charges at a fixed foreign exchange rate for a fixed term. In addition, the system and method of the instant invention may provide the ability to fix the currency

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exchange rate so as to eliminate, from the perspective of the holder of the parent card, any risk associated with fluctuations in currency exchange rates while, for example, a subsidiary is consuming spending capacity in a currency that is different from the currency used by the holder of the 5 parent card to provide the spending capacity to the subsidiary. For example, the system and method of the instant invention may accommodate a child studying in the U.S. for first time period of 12 months while the parent may budget with the knowledge that in each of the next 12 months, in 10 order to provide \$1000 for his child, his card will be billed a fixed amount each month (e.g., where the exchange rate is fixed at a negotiated 120 yen/\$, the parent card in Japan may be debited exactly Yen 120,000 each month. Accordingly, the risk that the exchange rate will fluctuate (e.g., rise) may 15 be transferred to the issuer. In an exemplary embodiment, a spending capacity of parent card account may be periodically decreased by a predetermined amount while the spending capacity of the subsidiary card account is increased by a substantially 20 equivalent amount, such that the subsidiary card account functions substantially as a pre-paid card account. Alternatively, the spending capacity of parent card account may be periodically decreased by an amount substantially equivalent to the spending capacity consumed by the subsidiary 25 card account, such that the subsidiary card account functions as a credit card linked to the parent card account. In an exemplary embodiment, a parent may communicate a request to the system to request cancellation, closure or temporary disablement of one or more subsidiary accounts, 30 and, in response, an exemplary system may be configured to accommodate such a request by accordingly facilitating cancellation, closure or temporary disablement of the appropriate subsidiary accounts. For example, a parent may call a telephone number that may be listed on the back of a 35 however, emergency transactions may be permitted without transaction card associated with a parent account or a subsidiary account and may request to cancel a subsidiary account. In the event that there is only one subsidiary account, then the system may facilitate the parent's choice to cancel the subsidiary account via a voice recognition 40 system (i.e., the system may not require the parent to interface with a customer service representative). However, if the parent has multiple subsidiary accounts associated with their parent account, the system may, in one embodiment, include additional processing to determine which of 45 the parent's associated subsidiary accounts the parent wishes to be modified (e.g., cancelled or otherwise modified). Such additional processing may entail additional automated steps configured to determine the required information or may simply entail connection of the parent to a customer service 50 representative. In an exemplary embodiment the spending power associated with a parent account is not affected by the spending capacity granted to a subsidiary account. In accordance with this embodiment, the system may be configured to facilitate 55 consideration of the spending capacity associated with the subsidiary account when determining whether or not to authorize a transaction through the parent account. Alternatively, an exemplary system may be configured so that the existence of a limit associated with a subsidiary account will 60 not change the parent's ability to spend in the event that the subsidiary is not consuming its spending capacity. With further reference to FIG. 3, an exemplary administrator 330 may be configured to establish more than one subsidiary card account 332 at the request of parent 310, and 65 each subsidiary card account 332 may bear a different credit line than either the parent account 315 or any other subsid-

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iary card account 332. In addition, an exemplary administrator may receive, and facilitate execution of, a request from parent 310 to define, modify, and/or terminate the spending capacity and/or debt accumulation limit for subsidiary card account 332 (e.g., \$500.00 spending capacity) for a first subsidiary card account 332, \$800.00 spending capacity for a second subsidiary card account 332, and \$250.00 spending capacity for a third subsidiary card account 332) and/or modified by parent 310.

In accordance with an exemplary embodiment, the system may also be configured to prevent carry-over of credit from one month to the next. In accordance with this embodiment, transactions facilitated by subsidiary card account 332 are

permitted until a pre-set spending capacity has been consumed. For example, in an exemplary embodiment, administrator **330** tracks the transactions facilitated by the subsidiary card account 332 to maintain a current account status. Whenever authorization for a particular transaction is requested of the administrator 330, the administrator 330 compares the status that would exist if the transaction were authorized and completed against the permissible status based upon a predetermined set of criteria (e.g., credit line, spending capacity, payment status, creditworthiness). Thus, when the transactions facilitated by a subsidiary card account 332 have reached the spending capacity, or would cause the spending capacity to be exceeded within the predetermined time period, or otherwise violate the predetermined set of criteria, no more charges will be authorized. In accordance with this embodiment, at each cycle cut, available credit is re-set to the pre-defined spending capacity. Thus, in accordance with this embodiment, unused spending capacity from one cycle cannot be used during the following cycle. In the event that the card is configured to accommodate emergency transactions as described herein,

consuming spending capacity.

Alternatively, the system may be configured to permit carry-over and accumulation of spending capacity from one month to the next. In this embodiment, at the beginning of each cycle cut, additional spending capacity may be added to subsidiary card account 332. In accordance with this embodiment, unused spending capacity from one cycle can be used in subsequent cycles and may be accumulated. In the event that carry over capacity is permitted, the carry over risk is allocated between the parent 310 and the administrator 330 in accordance with a predetermined set of criteria as described above. In accordance with this embodiment, interest may be credited for unused spending capacity.

With respect to applications and account settling, administrator 330 may require both parent 310 and prospective subsidiary 350 to apply for the subsidiary card account 332. Administrator 330 may require information regarding parent **310** to assess qualification for the subsidiary card account 332 (credit history, salary, etc.). Administrator 330 may also require information regarding subsidiary 350 to qualify for a minimum age requirement, to provide information to be embossed on the card, and to provide identification information (e.g., social security number, mother's maiden name, etc.). In addition, administrator 330 may define a maximum pre-set spending capacity, limit, or budget based upon an assessment of the parent's 310 creditworthiness, and subject to a predetermined maximum amount. It should be noted that the system 300 may at times require acquisition or verification of the identity of parent 310 or subsidiary 350. Administrator 330 may accomplish the process of obtaining and/or verifying the identity of parent 310 or subsidiary 350 through a variety of means that

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are known in the art including, but not limited to, use of private databases, credit bureau databases, transmission of biometric data, transmission of "hand-shake" data (i.e., smart card signature, challenge/response, etc) and/or the like. Thus, the authentication information is collected for the purpose of establishing the subsidiary card account 332 and defining its ownership. It should be noted that, although the instant invention may be embodied as a microchip enabled device, it may also be configured as a virtual and not a physical (e.g., plastic) account, which may not accommodate a microchip.

In accordance with the present invention, an exemplary system is configured to facilitate communication between

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account (e.g., purchases, cash advances, interest accrued, payments made, credit limits modified, spending capacities, etc.).

FIG. 4 illustrates an exemplary administrator 330 configured to administer a flexible limit subsidiary card account **332**. In accordance with this embodiment, administrator **330** is configured to facilitate communication between parent 310, a subsidiary 350, and a merchant 370 regarding the status (e.g., transactions, accrued interest, balances, avail-10 able credit, payments, billings, etc.) of subsidiary card account 332 and a parent account 315. In accordance with this embodiment, administrator 330 comprises an account administrator 430, a transaction administrator 440, a settler 450, and a statement generator 460. In an exemplary embodiment, account administrator 430 is configured to receive a request from parent 310 and to facilitate the establishment, issuance and administration of one or more subsidiary card account 332 so that it may be used by the subsidiary 350 to facilitate transactions. In addition, account administrator 430 is configured to facilitate determination and adjustment of appropriate spending powers for the parent account 315 and the subsidiary card account 332 in accordance with a predetermined set of rules. Accordingly, account administrator 430 is configured to receive and facilitate execution of a request from a parent **310** to define, modify, and/or terminate the spending and/or debt accumulation limits for the subsidiary card account 332 and to charge, i.e., adjust, the parent account **315** spending power based on the credit advanced to and consumed by each of the subsidiaries **350**. Further, account administrator **430** is configured to manage and track the balances of each parent account 315 and each subsidiary card account 332 in accordance with the activities transacted using each account (e.g., purchases, cash advances, interest accrued, payments

parent 310, a subsidiary 350, and an administrator 330 $_{15}$ regarding the status (e.g., transactions, accrued interest, balances, available credit, payments, billings, etc.) of subsidiary card account 332 and a parent account 315. In accordance with an exemplary embodiment, administrator **330** may communicate statements or transaction reports to both parent 310 and subsidiary 350. In an exemplary embodiment, one or more account statement options may be selected by a parent 310 such that paper and/or online statements may be generated listing each subsidiary account's transactions in a separate section. In accordance with an exemplary embodiment, current limit(s) for subsidiary accounts may suppressed so that they may be prevented from being displayed on statements. Accordingly, subsidiary **350** may be enabled to monitor transactions so as to enable subsidiary to dispute charges if necessary. Alternatively, 30 subsidiary may be partially or fully restricted from monitoring transactions depending of the choice of the parent. In addition, administrator 330 may enable parent 310 to monitor the amount of spending capacity consumed by subsidiary 350. As discussed herein, the levels of detail provided in 35 made, credit limits modified, spending capacities, etc.). In such parent account statements 334 may be configured by parent 310, subsidiary 350, or both. Further, whenever parent **310** has modified the spending capacity of subsidiary card account 332, administrator 330 may be configured to notify subsidiary 350 through subsidiary account statement 40 **336**. Based upon the parent account statement **334**, parent 310 may remit payment 314 to administrator 330, or a designee of administrator **330**. Accordingly, an exemplary administrator 330 is configured to generate a parent account statement 334 for the 45 parent account 315. In addition, administrator 330 is configured to dispatch subsidiary account statements 336 for each subsidiary card account 332 to each designated subsidiary 350. The subsidiary account statements 336 may be dispatched to individual designated addresses such as the 50 separate addresses of the individual subsidiaries **350**. Moreover, administrator 330 is configured to charge, i.e., adjust, the parent account 315 spending power based on the spending capacity advanced to and consumed by each of the subsidiaries **350**. In an exemplary embodiment, the parent 55 account statement 334 provided to parent 310 regarding the activity of each subsidiary 350 is limited to the aggregate sum owed. Alternatively, the statements parent account may include additional information regarding the activities of each subsidiary 350 may be provided depending upon the 60 wishes of parent 310 and/or each subsidiary 350. Administrator 330 may provide various levels of control to parent 310 and/or various levels of independence and privacy to subsidiary 350 through this mechanism. Finally, administrator **330** is configured to manage and track the balances of 65 each parent account 315 and each subsidiary card account 332 in accordance with the activities transacted using each

the event parent 310 fails to remit payment as promised, account administrator 430 is configured to place a hold on subsidiary card account 332.

In an exemplary embodiment, transaction administrator 440 is configured to facilitate transactions until a pre-set spending capacity has been consumed. Accordingly, transaction administrator 440 is configured to limit total spending. In addition, transaction administrator 440 may be configured to limit spending for specific classes of goods and/or services, to limit spending at specific classes of merchants or service providers, or to limit spending at specifically identified merchants or service providers. Moreover, where specific restrictions exist to condition the use of the parent account 315, the transaction administrator may be configured to enforce those restrictions against any associated subsidiary card account 332. Finally, transaction administrator 440 may be configured to accommodate emergency transactions in accordance with predefined criteria, e.g., specific medical service providers or pharmacies.

In an exemplary embodiment, settler 450 is configured to provide a settling payment to merchant 370. In addition, settler 450 is configured to arbitrate disputed transactions associated with subsidiary card account 332 directly with subsidiary 350 and merchant 370. In an exemplary embodiment, statement generator 460 is configured to generate a parent account statement 334 for the parent account 315 and to dispatch subsidiary account statements 336 for each subsidiary card account 332 to each designated subsidiary **350**. It should be noted that the system of the instant invention may also incorporate features to facilitate additional security benefits. While these features may take many forms that may

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be appreciated by one of ordinary skill in the art, an exemplary system includes a card replacer that may be activated to replace a parent card or a subsidiary card. In addition, a customer service engine may be configured to receive a message from a parent or a subsidiary through any ⁵ means known in the art, such as a telephone call or an e-mail message or another message transmitted, for example, through the internet. Customer service engine may also be configured to verify the identity of the message sender, e.g., a parent or a subsidiary, to verify the authority of the message sender to request a service, i.e., emergency card replacement, and to determine the appropriate responsive action, such as requesting that the card replacer send the requester a replacement card. As a result, additional security benefits are realized by the consumer. FIG. 5 illustrates an exemplary process for administering a flexible limit subsidiary card account 332. In accordance with this embodiment, a parent 310 submits a request 312, via facsimile, telephone, internet or any other means known 20 in the art, for a subsidiary card account 332 to an agent, delegate, or affiliate of the administrator (step 510). The request 312 may include information sufficient to identify and verify the identity of the parent **310** and the subsidiary 350 (e.g., name, address, social security number, mother's maiden name, telephone number). The request **312** may also include information necessary to configure a subsidiary card account 332 such as desired spending capacity, credit line, restricted merchants 370 or classes of merchants, emergency enabled merchants or classes of merchants for whom the spending capacity may be extended or waived, and whether carry-over is enabled. In response, administrator 330 may approve or refuse the request based upon a predetermined set of criteria such as credit worthiness or payment history of the parent **310** (step **512**). If administrator **330** approves 35 the request 312, administrator 330 establishes subsidiary card account 332 and a subsidiary spending capacity (step) 514). The subsidiary card account 332 and the parent account 315 are linked in that the parent account 315 remains responsible for transactions facilitated by the sub- $_{40}$ sidiary card account 332 and in that the parent 310 may access account and transaction information related to the subsidiary card account 332. To accommodate the provision of credit to subsidiary 350, administrator 330 decreases the spending power of the parent account 315 in accordance $_{45}$ with a predetermined set of rules, for example, by an amount less than the amount of credit provided to subsidiary 350 (step 516). Accordingly, administrator 330 accepts some risk for the extension of credit to subsidiary **350**. In the event of non-payment for transactions facilitated by the subsidiary 50 card account, a hold may be placed upon both the parent account 315 and the subsidiary card account 332. Ultimately, the parent 310 is responsible for all transactions facilitated by the subsidiary card account. Finally, administrator 330 dispatches tangible indicia of subsidiary card account 332, such as a plastic card, to subsidiary 350 (step) **520**). If approved, the system issues a card to subsidiary 350 as well as a PIN number or other system and method for verifying the identity of, i.e., authenticating, the user at, for 60 example, an ATM. Upon receipt of the card, before use, the system may require the card member to activate subsidiary card account 332 (e.g., sign the card and/or place a telephone call to a predetermined number). Once subsidiary card account 332 has been activated, subsidiary 350 may use the 65 subsidiary card account 332 throughout the cycle period to facilitate on-line and off-line transactions at permissible

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merchants **370** or to conduct withdrawals of cash at ATMs until the pre-set spending capacity has been reached.

Upon establishment of the subsidiary card account 332, subsidiary 350 may use the subsidiary card account 332 to facilitate purchases of goods and/or services 372 or may access ATMs for cash (step 530) using known in the art systems and methods. After subsidiary **350** uses the subsidiary card account 332, administrator 330 provides a settling payment 338 to merchant 370 using any appropriate settlement procedures known in the art (step 532). In addition, administrator 330 prepares and issues a statement to parent 310 reflecting the activity of subsidiary 350 using the subsidiary card account 332 (step 534). In an exemplary embodiment, a typical statement generator and printer are 15 utilized to produce a consolidated statement containing account and transaction data for both the parent account 315 and the subsidiary card account **332**. Finally, administrator 330 prepares and issues a statement to subsidiary 350 reflecting the activity on the subsidiary card account 332 for that cycle (step 536). In the beginning of cycle, the parent account 315 is debited with the monthly budget allocated to the subsidiary card account 332, and the subsidiary card account 332 is credited with a corresponding value. Subsidiary card account 332 usage is then permitted during the cycle up to the spending capacity to facilitate subsidiary transactions such as spending at a merchant **370** or a withdrawal of cash at an ATM. At the end of the cycle, the issuer provides a statement to parent **310**. The statement includes the spending capacity (a.k.a. budget) that was allocated to subsidiary 350 at the beginning of the cycle. Changes to the spending capacity are accomplished where, first, parent 310 desired to effect a change, second, communicates a request to the issuer (e.g., via telephone or on-line), third, the issuer approves the

request, and fourth, implements the change.

At cycle cut, the system provides a billing statement reflecting the charges made by subsidiary 350 to parent 310, either in a consolidated form with the statement for the parent account 315 or as a stand alone statement. Also, the system updates the spending capacity in accordance with the agreement with parent 310 (e.g., reflecting carry-over designations, charges made, payments made, interest accrued, adjustments to the spending capacity, and the like).

Once one or more subsidiary card account **332** has been established, the charges for each subsidiary card account **332** may be billed, for example, on a periodic (e.g., monthly) basis to, for example, the parent account **315** or a company's account or a predetermined bank account for direct payment. Parent **310** may pay the charges on the subsidiary card account **332** on a periodic (e.g., monthly) basis through any available funding vehicle (e.g., credit card, debit card, bank account, cash) or any combination thereof.

The system may also be configured to allow parent **310** to 55 modify the spending capacities of the subsidiary card account **332** or to cancel subsidiary card account **332** altogether. In the event that parent **310** wishes to modify the spending capacity of subsidiary card account **332**, parent **310** may communicate a request to administrator **330** via facsimile, internet, telephone or other method known in the art (step **540**). Once administrator **330** has received the request, administrator **330** may then modify the spending capacity of subsidiary card account **332** in accordance with a predetermined allocation of risk (step **542**), and may notify subsidiary **350** of the modification (step **544**) by facsimile, telephone, internet, e-mail, courier, standard mail or other means known in the art.

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In addition, the system is configured to enable parent **310** to modify the pre-set spending capacity upon the request of parent 310. In situations where parent 310 would like to change spending capacity, or cancel subsidiary card account 332, parent 310 communicates the request to the adminis- 5trator via telephone call to a predefined telephone number or via on-line request. In response, administrator **330** approves the request and accomplishes the modification.

facilitates the application and subsidiary card account 332 establishment process. The system also tracks subsidiary card account 332 usage and payments, and tracks the outstanding balance relative to the pre-set spending capacity. In accordance with this embodiment, the application and subsidiary card account 332 establishment process begins when parent **310** and a potential subsidiary apply for a subsidiary card account 332 by transmitting application information to an administrator. The application information may include information identifying parent 310 (e.g., personal details regarding parent 310, account number of parent account 315), information identifying subsidiary 350 (e.g., personal details regarding subsidiary 350), information defining the desired characteristics of the subsidiary card account 332 (e.g., desired spending capacity, allowable carry-over from cycle to cycle, limited or forbidden merchants 370, and the like), and acceptance of terms (e.g., agreement of responsibility). In the event that parent 310 elects to cancel the parent account 315, administrator 330 will also cancel any subsidiary account 332 linked to the cancelled account, unless parent 310 provides another form of security for the subsidiary card account 332. If the subsidiary card account 332 has a positive balance at the time it is cancelled, administrator 330 will refund the positive balance to parent 310. Administrator 330 is also configured to accommodate disputed transactions associated with subsidiary card account 332 directly with subsidiary 350. In the event parent 310 fails to remit payment to administrator 330 as promised, administrator 330 is configured to place a hold on subsidiary 40 card account 332. The present invention may be described herein in terms of functional block components, screen shots, optional selections and various processing steps. It should be appreciated that such functional blocks may be realized by any number 45 of hardware and/or software components configured to perform the specified functions. For example, the present invention may employ various integrated circuit components, e.g., memory elements, processing elements, logic elements, look-up tables, and the like, which may carry out 50 a variety of functions under the control of one or more microprocessors or other control devices. Similarly, the software elements of the present invention may be implemented with any programming or scripting language such as C, C++, Java, COBOL, assembler, PERL, extensible 55 markup language (XML), with the various algorithms being implemented with any combination of data structures, objects, processes, routines or other programming elements. Further, it should be noted that the present invention may employ any number of conventional techniques for data 60 in a computer-readable memory that can direct a computer transmission, signaling, data processing, network control, and the like. Still further, the invention could be used to detect or prevent security issues with a client-side scripting language, such as JavaScript, VBScript or the like. For a basic introduction of cryptography, please review a text 65 written by Bruce Schneier, which is entitled "Applied Cryptography: Protocols, Algorithms, And Source Code In C,"

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published by John Wiley & Sons (second edition, 1996), which is hereby incorporated by reference.

Other examples of online reward or incentive systems are disclosed in U.S. Pat. No. 5,774,870, issued on Jun. 30, 1998, and U.S. Pat. No. 6,009,412, issued on Dec. 29, 1999, both of which are hereby incorporated by reference. Additional information relating to smart card and smart card reader payment technology is disclosed in U.S. Pat. Nos. 5,742,845; 5,898,838 and 5,905,908, owned by Datascape; In accordance with an exemplary embodiment, the system 10 which are hereby incorporated by reference. Moreover, additional information related to online privacy and anonymity systems may be found at www.PRIVADA.COM, which is hereby incorporated by reference. It should be appreciated that the particular implementa-15 tions shown and described herein are illustrative of the invention and its best mode and are not intended to otherwise limit the scope of the present invention in any way. Indeed, for the sake of brevity, conventional data networking, application development and other functional aspects of 20 the systems (and components of the individual operating components of the systems) may not be described in detail herein. Furthermore, the connecting lines shown in the various figures contained herein are intended to represent exemplary functional relationships and/or physical couplings between the various elements. It should be noted that many alternative or additional functional relationships or physical connections may be present in a practical electronic transaction system. As will be appreciated by one of ordinary skill in the art, the present invention may be embodied as a method, a data processing system, a device for data processing, an integrated circuit, and/or a computer program product. Accordingly, the present invention may take the form of an entirely software embodiment, an entirely hardware embodiment, or an embodiment combining aspects of both software and hardware. Furthermore, the present invention may take the form of a computer program product on a computer-readable storage medium having computer-readable program code means embodied in the storage medium. Any suitable computer-readable storage medium may be utilized, including hard disks, CD-ROM, optical storage devices, magnetic storage devices, and/or the like. The present invention is described herein with reference to screen shots, block diagrams and flowchart illustrations of methods, apparatus (e.g., systems), and computer program products according to various aspects of the invention. It will be understood that each functional block of the block diagrams and the flowchart illustrations, and combinations of functional blocks in the block diagrams and flowchart illustrations, respectively, can be implemented by computer program instructions. These computer program instructions may be loaded onto a general purpose computer, special purpose computer, or other programmable data processing apparatus to produce a machine, such that the instructions which execute on the computer or other programmable data processing apparatus create system and method for implementing the functions specified in the flowchart block or blocks. These computer program instructions may also be stored or other programmable data processing apparatus to function in a particular manner, such that the instructions stored in the computer-readable memory produce an article of manufacture including instruction means which implement the function specified in the flowchart block or blocks. The computer program instructions may also be loaded onto a computer or other programmable data processing apparatus to cause a

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series of operational steps to be performed on the computer or other programmable apparatus to produce a computerimplemented process such that the instructions which execute on the computer or other programmable apparatus provide steps for implementing the functions specified in the 5 flowchart block or blocks.

Accordingly, functional blocks of the block diagrams and flowchart illustrations support combinations of system and method for performing the specified functions, combinations of steps for performing the specified functions, and program 10 instruction for performing the specified functions. It will also be understood that each functional block of the block diagrams and flowchart illustrations, and combinations of functional blocks in the block diagrams and flowchart illustrations, can be implemented by either special purpose 15 hardware-based computer systems which perform the specified functions or steps, or suitable combinations of special purpose hardware and computer instructions. In the foregoing specification, the invention has been described with reference to specific embodiments. However, 20 1, further comprising the step of: it will be appreciated that various modifications and changes can be made without departing from the scope of the present invention. The specification and figures are to be regarded in an illustrative manner, rather than a restrictive one, and all such modifications are intended to be included within the 25 scope of present invention. Accordingly, the scope of the invention should be determined by the appended claims and their legal equivalents, rather than by the examples given above. For example, the steps recited in any of the method or process claims may be executed in any order and are not 30limited to the order presented in the claims. Benefits, other advantages, and solutions to problems have been described above with regard to specific embodiments. However, the benefits, advantages, solutions to problems, and any element(s) that may cause any benefit, advan-³⁵ tage, or solution to occur or become more pronounced are not to be construed as critical, required, or essential features or elements of any or all the claims. As used herein, the terms "comprises". "comprising", or any other variation thereof, are intended to cover a non-exclusive inclusion, 40 such that a process, method, article, or apparatus that comprises a list of elements does not include only those elements but may include other elements not expressly listed or inherent to such process, method, article, or apparatus. Further, no element described herein is required for the 45 practice of the invention unless expressly described as "essential" or "critical."

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reducing, at said host computer, said parent spending power by an amount less than said subsidiary spend transaction amount when said subsidiary account is linked to said parent account.

2. The computer-implemented method according to claim 1, wherein said step of receiving said request comprises: receiving said request via a means for communication selected from the group consisting of a telephone, a pager, a computer, a digital communications device, a television, a personal digital assistant, and a facsimile machine.

3. The computer-implemented method according to claim 1, further comprising the steps of:

monitoring spending activity facilitated by at least one of said parent account and said subsidiary account; and modifying at least one of said parent spending power and said subsidiary spending power based at least in part on said spending activity. **4**. The computer-implemented method according to claim establishing, at said host computer, a spending limit configured to affect at least one of said parent spending power and said subsidiary spending power. **5**. The computer-implemented method according to claim 4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed per transaction. 6. The computer-implemented method according to claim 4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed per day. 7. The computer-implemented method according to claim 4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed during a predetermined time period.

8. The computer-implemented method according to claim

What is claimed is:

1. A computer-implemented method for facilitating the administration of a subsidiary account within a database contained within a host computer comprising the steps of: receiving, at a host computer, a request for a subsidiary account linked to a parent account, wherein said parent account is a financial account having a parent spending 55 power, wherein said parent spending power is a credit limit for said parent account; linking, at said host computer, said subsidiary account to said parent account, wherein said subsidiary account is a financial account having a subsidiary spending power, 60 said subsidiary spending power is a credit limit for said subsidiary account, and said subsidiary spending power is configured to consume a portion of said parent spending power;

4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed at a particular merchant.

9. The computer-implemented method according to claim 4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed at a particular chain of merchants.

10. The computer-implemented method according to claim 4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed at a particular industry type.

11. The computer-implemented method according to claim 4, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed in accordance with a predetermined rate of change over time. 12. A system for administering a subsidiary account within a computing system, said computer system comprising:

an account administrator module in communication with a transaction administrator module; a settler module; and

a statement generator module, wherein said account administrator module is configured to:

reducing, at said host computer, said subsidiary spending 65 power in said subsidiary account by a subsidiary spend transaction amount; and,

receive a request for at least one subsidiary account linked to a parent account, said parent account including a parent account spending power, wherein said parent account spending power is a credit limit for said parent account, said at least one subsidiary account including a subsidiary spending power, wherein said subsidiary spending power is a credit limit for said subsidiary account,

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and said subsidiary spending power is less than said parent spending power, and reduce said subsidiary spending power in said subsidiary account by a subsidiary spend transaction amount;

reduce said parent spending power only by an amount less than said subsidiary spend transaction amount when said subsidiary account is linked to said parent account,

wherein said settler module is configured to facilitate 10 providing a settling payment to a merchant, and wherein said statement generator module is configured to facilitate generating a parent account statement.

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15. The machine-readable medium according to claim 13, wherein the method further comprises the steps of:

monitoring spending activity facilitated by at least one of said parent account and said subsidiary account; and modifying at least one of said parent spending power and said subsidiary spending power based at least in part on said spending activity.

16. The machine-readable medium according to claim 13, further comprising the step of:

- establishing at least one spending limit configured to affect at least one of said parent spending power and said subsidiary spending power.
- 17. The machine-readable medium according to claim 16,

13. A machine-readable medium having stored thereon a plurality of instructions, said plurality of instructions when 15 executed by a processor, cause said processor to perform a method comprising the steps of:

- receiving a request for a subsidiary account linked to a parent account, said parent account being a financial account, and said parent account having a parent spend-20 ing power, said subsidiary account being a financial account, and said subsidiary account having a subsidiary spending power, wherein said parent spending power is a credit limit for said parent account, and said subsidiary spending power is a credit limit for said 25 subsidiary account;
- linking said subsidiary account to said parent account, wherein said subsidiary spending power is configured to consume a portion of said parent spending power;
 reducing, at said host computer, said subsidiary spending 30 power in said subsidiary account by a subsidiary spend transaction amount; and,
- reducing, at said host computer, said parent spending power by an amount less than said subsidiary spend transaction amount when said subsidiary account is 35

wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed per transaction.

18. The machine-readable medium according to claim 16, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed per day.

19. The machine-readable medium according to claim **16**, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed during a predetermined time period.

20. The machine-readable medium according to claim **16**, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed at a particular merchant.

21. The machine-readable medium according to claim **16**, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed at a particular chain of merchants.

22. The machine-readable medium according to claim 16, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed at a particular industry type.

linked to said parent account.

14. The machine-readable medium according to claim 13, wherein said step of receiving said request comprises:

receiving said request via a means for communication selected from the group consisting of a telephone, a 40 pager, a computer, a digital communications device, a television, a personal digital assistant, and a facsimile machine.

23. The machine-readable medium according to claim 16, wherein said step of establishing said spending limit is based upon a maximum transaction amount allowed in accordance with a predetermined rate of change over time.

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